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CODICUM DESCRIPTIONES.

CODEX PRIMUS.—*Rawlinsonianus*, 502.

CODEX hic antiquissimus est extantium—Membranaceus—in folio minori, et sæculo, ut videtur, 12mo, saltem quoad eam partem quæ *Tigernachi* fragmentum continet, exaratus. (1)—Incipit ab *Elencho*, manu J. Waræi, his verbis, descripto.

"1. Annales ab Urbe condita usque ad initium Imperii Antonini Pii. fol. 1.—Excerpta "quædam ex Archivis Saccarii Dublinii, in Officio Rememoratoris Regii. fol. 13.—Miscellanea "de rebus Hibernicis, collecta per Oengusium *Celide*, sive *Colideum*, vulgo *Psalter-narran*. "fol. 19.—Excerpta ex Rotulis Patentibus et clausis, asservatis in Turre Birminghamiana, "intra Castrum Dublin. fol. 90.—Processio de electione Archiepiscopi Dubliniensis, per Pri-"orem et Conventum Ecclesiæ S. Trinitatis Dublin. et *Decanum et Capitulum* Ecclesiæ S. "Trinitatis Dublin. post *Gulielmi de Hotham*, Archiepiscopi, obitum, anno 1298. fol. 98.—"Exemplaria Chirographorum Episcoporum Leghlinensium, de Possessionibus et Libertatibus "Burgensium Leghlinæ." fol. 102.

Elenchus is, plane indicat Waræum ignorasse, primam hujus Codicis partem, quam "*Annales ab Urbe condita*" appellat, fragmentum esse Annalium Tigernachi.

Desunt in initio Codicis folia plura, procul dubio membranacea; prima enim quæ extant membranacea sunt, eaque sola Tigernachi fragmentum continent, in initio et in fine mutilatum. Characteres hujus primæ partis sunt Hibernici, minusculi, rotundiores, et elegantiores quam Hibernici sæculorum sequentium, et ad Characteres Codicis Hibernici Harleiani IV Evangeliorum, anni 1138, valde accedunt, ita ut eodem sæculo utrumque Codicem exaratum fuisse, non sine rationibus validis conjiciendum sit.—Folia porro quæ Fragmentum hoc complectuntur, non plura sunt quam

(1) Chronicon Scotor. MS. in Collegio Dublin. H. 15. hæc habet ad ann. 1088. "*Tigernach h. Brain do Sil "Muiredh. Comarba Ciarain Cluana-mc-nois 7 Comain q.*" i. e. "Tigernachus O Brain, de Clientela *Muredachi*, "nempe de familia O'Conor, Connaciæ, Successor S. Ciarani Abbatis de Cluanmacnois, et S. Comani (de "Roscoman) quievit."—Eadem habent ad eundem annum Annales Ultonienses, et IV Magistrorum, item Inisfalenses, Waræus, et Usserius.

duodecim. Incipiunt a verbis "*esse fertur, quem multo ante tempore regnasse præscripsimus,*" et desinunt in Imperio Antonini Pii.

Ejusdem Codicis descriptio ex Catalogo Tenesoniano.

Fol. 1.—" Annales ab urbe condita (1) usque ad initium Imperii Antonini Pii, charactere " Hibernico, sed lingua Latina. (2)—Fol. 13. Excerpta ex Archivis Regiis, in officio Rememo- " ratoris.—Fol. 19. Miscellanea de rebus Hibernicis metrice, lingua partim Latina, partim " Hibernica, collecta per *Aengusium O'Celede*, forte Colideum; hic liber *Psalter Naran* appel- " latur. Continet præterea alia multa, et versibus et soluta oratione, Genealogias Sanctorum " Hiberniæ; item Catalogum Regum Hiberniæ ab Herimone, usque ad Brianum filium Cinedi, " cognomento *Boruma*, sive *Boro*, qui a Danis Dubliniensibus die Aprilis 22, A.D. 1014, ætatis " suæ anno 74, occisus est.—Item antiquam Hiberniæ Divisionem, et excerpta quædam ex " antiquissimo illo Codice, vulgo "*Psalter Cassel*" appellato, quod a Cormaco, Culenani filio, " Rege et Episcopo Casseliense, sub anno 901, scriptum ferunt.—Huc usque in Membr. " Reliqua in Charta, collecta ex Archivis Regiis in Turri Berminghamiana conservatis.

Fol. 90. " Processio de electione Archiepiscopi Dublin. per Priorem et Conventum Ecclesiæ " S. Trinitatis Dublin, et Decanum et Capitulum Ecclesiæ S. Patricii Dublin, post mortem " Gulielmi de Hotham Archiepiscopi, anno 1298.—Fol. 98. Exemplaria Chirographorum Episco- " por. Leighlinensium de possessionibus et libertatibus Burgensium Leighlinæ."

CODEX SECUNDUS.—*Rawlinsonianus*, 488.

Codex est Membranaceus, qui Tigernachi Annales, ab Alexandri Magni obitu, continet, usque ad annum 1088, et *Continuatoris* ejusdem Annales, usque ad ann. 1178. Una eademque manu, et characteribus Hibernicis, descriptus est.—Totius Elenchum, J. Waræi manu exaratum, et Codici præpositum, hic describendum putavi.

" 1. Annales Tigernachi (Erenachi, ut opinor, Clonmacnoisensis) usque ad annum Salutis " 1088, quo obiit, a folio 1.—Continuatio Tigernachi usque ad annum 1178, a folio 20.—Frag- " mentum Annalium cujusdam Anonymi, a folio 30.—Fragmentum Annalium Prioratus Insulæ " Sanctorum, in Shenano fluvio, ab anno 1392, usque ad annum 1407, a folio 34.—Annales " Ecclesiæ, ut videtur, B. Mariæ Virginis, Pontanæ, ab anno 1488, usque ad annum 1501, a folio 40. " Severall Memorials of Edward Staples, some time Bishop of Meath, given to me by Ant. " Martin, Bishop of the same, a folio 42.—" Severall Memoires of Sir Henry Sidney, some

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(1) Nescivit ab initio rerum deductum esse Tigernachi Chronicon; et cum prima folia desint, putavit ab Urbe condita incipere, unde folium quod nunc primum est, initium ducit.

(2) Prima folia Tigernachi utplurimum Latine scripta sunt, quia Historiam universalem respiciunt.

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4 ?4'5ʿ1=?=ʿ84 3375 7"ʿ '4 ^ʿ'5' '(248Nʿ 546?4ʿ@4 (145(ʿ4(?41ʿ48ʿNʿ 84?ʿ2=5 4ʿ'5<4 '= '8ʿ8@4;'4Hʿ
5ʿ U1 :(.? (ʿ 1674(?.=41 ʿ 27 '1(ʿ4?U!?'85 '1'<'(ʿ (5?(ʿ875 ʿ'5ʿ<= 1(ʿ 7?'= 4ʿ2' ; (71ʿ
<+#-ʿ'8 '(8ʿ75?u8@4?'14 ʿ 75ʿh??58' ʿ' 416=425ʿ :: 4 '('=5':78!
)#F22 - ;Eʿ# ʿ H F- #G JH#Uʿ I82 <) F +#-ʿ 8UF-E8 ʿ/+ G 8 ʿ #1+ ʿ + #J @ʿ
Z)ʿ ʿ-8-di2 ʿ23 ʿ1+8SF8 8+ʿ ʿ G ʿF-F+< a ʿ,mYOʿ8X ʿ# ʿ G2 0 # 8+## +F ʿ
># 8 -ʿ?ʿ ʿ ! # # ʿ B S ʿ 8 ʿ 1+8SF8 8+ʿ F- < +ʿ# ʿ E#J# F-ʿ # 8+ #J#-ʿ ʿ 8 E8 ʿ !aJ##2 ʿ
g+ ?#Fʿ ?D. D a' E*#1 #C ?ʿ E! ??? #4WE4Z#?'ʿ? ?62 ?# Jʿ F 8 ʿ E#J8ʿ F22# #ʿ 8X ʿ SF I#-ʿ
< 8 +ʿ8Xʿ +8I# # # F-ʿ18+E#H i 8+#-ʿ-)2 +F ##ʿ ##8 -8 ʿ 8 -ʿ #1+ -ʿ SF# F-ʿ +8I# 2#

) ʿ+ + ʿSo#E8 ʿ ʿ Jʿ E#J8ʿ# I\ # ʿ8 + J +8 ?k ʿ SFaʿ IcE8 F+ʿ8--8ʿ #1+ ʿ F 8+#ʿ + ʿ
ee#]#J cI 0ʿ -S<))?+ ? 8+ 0c- ʿ Y #) W) C8E) ʿF #ʿ <+hʿ !#22 ʿ !ʿ #1+ ʿSFaʿ F 84ʿ
+ ʿ # E#J +ʿ# ʿ # -ʿ E#J# ʿ #\+ #8 ʿ ʿSF# F-ʿo-F+< F+ʿ ʿ8-ʿ_ʿ-8Eʿ #ʿ #ʿ#
<#<E D)ʿ F 2# -ʿ $ #8 ! -ʿ8 ʿF +8I2##U)ʿ ʿ<+ ʿ8 ʿJ F # 8+ʿ# ʿ F-##ʿ 1F# ʿ2 G8ʿ 8ʿ
! J 2 #p #A ʿ ʿI8+ ʿ # -ʿ !!T#ʿ -J+)8d #ʿ +8 ʿ# ʿ F-Fʿ 1F#--8ʿ # ʿ F+ < ʿ
-I< 8ʿ Eʿ3 8J#E ʿ#- F ʿ8 # ʿE8 # ʿ 8 #)))ʿ SF ʿ 2#SF#ʿ +8+F ʿ 2#SF +F
' (z'<UR5GU'U*E :' RU

!!!!!!!!+O2 EE&!'52 *ʿ 3! U !!!!!ʿ !

E ʿ%E4ʿ E(2OUʿ '884 ʿ '5ʿ wʿ 34ʿ 3'2E @3!ʿU8(; JI4 ʿE(2#8I8ʿ 2 4: (ʿ 9=5 2 !

I# & ' & ! $!

448 ' 4 '(1 ' '5' 3=;' =?';4' ' 4 (' (5 72('8' . ' o4674' 7867((' 8; ':' 7 ' ?7@2';' 7 ' ' 42' ' o4674' 722':" '5 45' 7 ' 42' 2' 4 (' ' ' 42' ' ;71' @75; =' 87@ (@=8' =' N o4674' 722':" 49 (' 5= (' (?1 '& ('=5'8 ' 42' '5 4 = ('=5'8 ' 42' 722(' (2'(' 8; ':45?" <= 1 (' 67(4' (:' 5 2= 71' (? 45 7 ' '5' O':4 7';(1' 8; ':45?" 14 3=?71' @=8 ' (4;7271' 9' !' @ =<279' !

'1 (' ' (674' =?';'8' <=2'(' 67(' ' 4 5(;3" }55(248' 4 ' =5 '57('=541' ;=5 '545 ' 78674' (?' (5571' Z ' (5 4' 1 ;727'5' 71' ?48; '@ (' <7'884 ' 1'5'14' ?7:' (5?71' ;4584=' ;71' =1548' =?';48' O':4 5';' ' (' 14?'=' (4;72=' =' ?48; '@ ' ' 67(4?(1' 3(:4(5 ' 5 2'8' ;=1 175'(' 67(4' '5' 3'8' <=2''8' 1'5'14' 4@4 '75 7 !

: F# <2F+ ' E8' H J' E#J8' E8-#E8+ #' <2 + ' # I8 #8 ' # ' $+ 28G 8 #-']' < G# ' X' E' < G' XX#I ' ' < G' X2I##' E' < G' 2### ' 8 ' ' < G' J2X#I' E' J2XX#X

" & >' ! @ O!' .

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'+ 4875 ' 67(4?(1 ' :7'4' <=2'=' @ (4@=545?(!' 5;'@' ' 45'1 ' 5=5' (:' '5' '=' 84?' (' <'54' (1'5'8' O':4 5';" '5' 2(7?4 P' ;7G78?(1' 4' <(1'2'('] 4 (2?'5= 71 ' ;7G78' 72 '1 (' (5 71' ?'8 ';3(' 493'::;5 7 ' 1(57' 4(?41' 8; '@ (' 67(' < # ' O # ' 67(4' 8467' 7 ' 78674' (?' <=2'71' , ' 1 ('5" 541@4' ! # ' + ' # ' B,C' 67" ;71' 4('=15'(' <4 4' 67(4' '5' 3=;' ;(1'54' ;=5 '545 7 ' 42' <(28(' 42' '5(5'(' (;' 87@ (' 1=?71' (1@2'<';((' '?4 4 ' 3(4;' '5' 1('54' (@@=87' ' K' ' $P -' ' ' ' $P -' B' '!'4!' 8" 145?(;'71' 3=;' 48 ' 5=5' 1'3" ':745?7'5' 48 !

B C' 4' 4=' ' 4 4 71' O':4 5= (1 ' '?4' =24 =' =45(' 5=8 (' (?' 55(248' O':4 5';=8!' @(!' 2'9!
B,C' ='2' + ' # ' 7 ' '5' 245;3=' 37';' =?';" @ A@=8' = ' <=2'=' ' 84?' + P # ' 67" <2= 7' ' (:' (55=' Z, ' 7 @=8 4(' @(4:' ' 4 ' <7' '] ; (2?'5=575' =1=5'A' 3 # ' < # # ' ;3'@=4 (' 8' 4' O'8 = '458!' !

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2'4 4 w<4(b'2 *2 8 X'U'(O7?1;4'U(' <" (P4 y4' ' '3(:4(' #' 'u 55'=1' (5 5 '1 2'''1'
; UUU8('@'[(X'51' '4@<2 U '}384 UUm R((=8':4 E ' u' uw 48'('5= +# ' =1! ! =5?4 ''' ; ' (2?"
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'(!7 '?4'4 1 5 1'<' U2 (4'517 (4 (13n4z?(5"8'!

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ʼ - ʼ D '=D&P' 5" <7UP3' : D 4'-4) ʼ
2C:'7bU'5' ' 1 4' '5 '4'P4!

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, J F@5' ʼ :'U@' ='@@ 4bU2:!' 1 4' bU'P: ʼ 5;:@7U'5' :=@=5534' ;@" :2'bU :5b" P4bU ʼ bU@ @'?';:': ʼ Z' :bU @" '@bU55' bU5' =@'P:4bU2::!' @5!

ʼ :2'bU@ ='@::4bU2::!' ʼ : @' W 27'@;:4@&' ;bU';' 1 :='@' ;@'!' :2!5bU' :4bU ʼ bU@ @';3;:'::!

ʼ ::b2@ WZ 7'@;4@;bU';;' '5='@' ʼ :?@'<;=1:&' 5bU'22' '53='@' ' 4?'bb!' DZ2=::bU' @4' :2!' 5bU' Z' @" @'?';:':!

ʼ ::bU@ P=1 :5bU'22' 1 :='@' - ʼ :bU@ P=55;3bU' bU'@:@';;' ʼ :2!5bU' @'?';:'=:!

ʼ :bU@ P=554:!' bU'@:@'44' ʼ :bU@ =5;37&' :bU'@ 5bUL'7:bU'54'=;34' :2!' :4bU ʼ bU@ @3'4:':3!

ʼ :bU@ =54:7::bU'@ 5bU L!' ʼ :bU@ :@'bU'5' D27bU'::' 1 4' =5;7:2#2'@ 5bU L!' ;4';:@4' :2!' @'?'4;U:!) P=' :'22' bU5' C@'bU5' @bU' 5bU=' '5:2!' 5bU' :4bU ʼ bU bU' 4@57@ 7bU 17'5:bU'5!

ʼ ʼ H+#- ʼ ʼ F+ 8+ # ʼ 1 2- @'
E # F# ʼ +# # 1#2## 8 8E8# ʼ B C'

4@ 41' (55" B4 C' :'8' ' '5 " (:' =:' 7' '(5" ==14'' 78674' (?' ?'8;4887'5' =5543(?" o2'" '(5" '5' @4 4 '5('=545' .=1 (5'!' B,C' !!
5?4' ! (?' =:' 71' = ?42:(;3" <'2'" 3(?(4'' <'2'" '(5" ==14'' 48' (55" B4'C' ?4;4 5' 87@ (' ' '5 '' 4 ' <7'' 49' = '78' O':4 5'(4' = ?42:(;378' '8 4!' B C' !!!!'
:'=:' 7' = ?42:(;3" (?'=:' 71' 7&' ;4 (;3" (5" 48' (55" ?4;4'5' 87G' (' '5 '!' M' B C' !!!!!!!!!!!!!!!!!!!!!!!!'
:'=:' 7' 7;4 (;3" (5" (?'=:' 7'5' =5(2?" (5'' .4 '8' '5''?'" + -, B'!' 4!' ?'1'?'" 78 (2'8' = '78' O':4 5'(4C' 849' (55" B4 C' 4 ' ' '5 '!' --!' B-C' !!!!']'
:'=:' 7' =5(2?" (5" (?' =:' 75" =5543(?" #$# ' ' '5 " 67'5S 67X' (55'!' B C' !!!' , -
:'=:' 7' =5543(?" #$# ' (?' =:' 75" =5;=:(" + #- # # ' (''5' ' '5 (' =; =!' BZC' !!!!!!!' !!!!!!!!!!!!!!!!!!!'
! $' =:' 7' =5;=:(" (?'=:' 75" '(5" .7<'' <'2'" =5;=:(" + #- # # ' (55" 875 ' ' '5 " 67(7=) 7'' '(578' 2'';' (55'8' M' '5' .4 '1'54' 3= (=5'(4!' B C' ,

BUC' K' ' $ 'C' ';6 'F'':'?4' ' '!' 4!' A' 4@ 41' (55" 4 ':'8' ' '5 'Q) 55" (7 41' Z' (55=' ' (?G75; U' 4<<';'75 '(51'1' N' 65" =5543(?78' .=1(8' =:'' ' (55=' (8 84' ;=1!' ' 7 ' 85@ (!

B C' '(5" 5(' ' (41' 4<4 p' : =5';=5' ;== 71 ' '5' 3=;' '@8=' =?';4' (?' (55!' M, ' <=!' , ' =:' 71' 4 =' (?' (55!' ' <=2!' !
B,C' 714 " ' '5' 49 7 ' A (1';=1 17541' (5 4;4?55 ' (55'8' !
B C' :'' ' = ?4' (; 78G59 (' ' 4 5(4:71' 4 '=1548 ' (55=' N0' 75?4' @ =' 5714 '8' ' 24 45?" 875 ' , ' (55" 45'1' , ' (?G75; " (55=' ' 67=' =554:(?58' =:'' ' (5571' 4' ;'75 ' &!Z!
B C' :'' ' + # ' (55=' M' 67=?' 87@4 '= 41' 5= (1';=5<' 1d !
B-C' :'' ' ' + - ' (55=' M !
B C' :'' ' =5543(?78' #$# ' <'2'58' =5(2?" (5'' (55=' , ,!
BZC' 455'78' 8' 4' (5; = ' 4'58' 67" 8; '@8' ' ?4' ' ' ('\' 78' * + + ++ ' =@78;5271 ' (?' ;(2;41' 4''5'" 4?' '1 " ('] (24 ' '567' '@'=@4' 2(;71' M ' :=?'4' / 3' '5' 78 (2" O':4 5'(' '5 45' " K' + #- # ') '% ' - ' ' ! # ' !Q) :'' ' $ # ' '8 4' (55=' , Z!I
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67"ˢ ' 'ˢ(?ˢ % ˢ * ˢ ;71ˢ 87'8ˢ
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3(?8478ˢ # ˢ $ ˢ?'; 78ˢ''5&ˢ
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= ?42:(;2'78ˢ % ˢ?'; 78ˢ ':78
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]'2?(8ˢ ' 4 ˢ;7"ˢ5=145 = ?42:(;378ˢ
7 45'8ˢ ?7=:78ˢ(55'8ˢ4ˢ75=ˢ 14584ˢ'5ˢ
4 '1'54ˢ 3=1=5'^!ˢB-Cˢ !!!!!!!!ˢ ^_
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<'22"ˢ 3(?^'&J?7=?4;'1ˢ (55'8ˢ'5ˢ 4 'S
1'54ˢ !ˢBZCˢ ˢ ˢ ,
7 ;3(?78ˢ<'2'78ˢ = ?42:(;:"ˢ 78;"ˢ
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+8G# # 8ˢ ˢ,CYˢ ˢ ˢ ˢ ˢ A
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B CˢK ! !ˢ ˢ -ˢ ˢ #ˢ - # ˢ ˢ Bˢ !4!ˢ :(?(478ˢ I '(5ˢ =1'578ˢ 3=1=5'^ˢ =:'' !ˢ
(ˢ %ˢ !ˢ (5ˢ54'5@4ˢ ˢ'8 4ˢ4ˢ $ # ˢ^17 ˢ@ =ˢ 7@ 41=ˢ =1'5'=!ˢ ˢr
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b#) 'B ' 2 1# #' <' '" ?42:(;2'" 78;' ' ''8'

y2'2f2E ' (1w8' 8?I8=2 '' ;;5" 2:71'

c 1 bU: !' E!' ' 24 3' Z' ' ' 4' :'' ((10h(U5U(8)/ , , ((75'8' ;(1' ?' 1'?'=!' D'

v8P2 # ' f) &)1 E# -' 1#2#F-' J +#' 1#2##

18') W #]#<' 8' # < 8 2 2#y P & J)' 1#2Z' J +#' 1#2[' +E820'

r d* D 7 ' #9>+ #n) U) B F-' 8-' #-' 8-' SF#' '

' 1# ' K C

<8'V8J*!' * ++

#)) 8))E)# E8D) L8 8 'J ' # 2F-04q' 3 -' 4' % ' ' f' "8 8 2 G#'

)' 8+ ##' H#J q' #! # # ' # ')#)' W#' SF E ' %# ' 8' /

S wJF 1##-' 8 #v 8 ' 1#WWZ)' E#E F-' E#2#G8 8+' J 18+ ##E '

G+ 1# @Q' ' C' 5 ' 6 # ' ' ' ' 7 '

v') ' '8 9'8 # ' ' ' ## @ #G8+## J2# Q'

1#2- 8#' !# +#J#' 8G2W' 2#8F#G8 +F# ' 8' & JH E#' 1#2##

#' WG#3' 8 8 #8' 1# @ -8<' JZZ' ;') # +F#Z' -1# F-' JF#' #G8+ JH# #-'&# #4

'1(T`'48 4' J I8 # ?

E8-) # 'W<U))? '-8SF8)'# E8 ' Y1+#-' 8 E8 SF8' S'

-SF8' E' 1# 1# #' Bq' # "2 - 8' SF E' # E#J ' 1 2#' HwJ' '

#I 2 122Z 1#21#+ 2k pC8S8 E8+ }W g '1#8- < 83-8 @ # 18+J' SFW' #' #-' 1 2##-' J # 8 F+'

^) 9E, ?TB W## G# 3' 2#-'< #J#-' 8X88< H' SFW' #' 1 2##' ! ##' < G# 'AE '8X# '-F

H J' # F2 040M' 8 #' '+ '8 ' ' ' :'; ' ' , '< ' / ' ' ' =

.:' ' #'W'$ + '#)+#88' "8 1#)G 8Z' 1 #1#W' &80 F+G' #J' -8SF# F+' <+ F'8 #' # I8 #' #'

2 +8' 1# 1 ' 18' 1# #1#2g ' ?# :nJ C1# +F ?04!)' y#ZE#Z' # 8+< -#1#-' 2#wJ' -8SFF F+@M' 8 '

)'8 ' 'D)28 WT)' 4+' # '8 -' / ' #' !>' ,#'8' +#G

"8 8 2 G* -' # + ' +E-' 4 ,F # G)' <8' I7E' E8' I+G88 -1# F-' # 8+#J8 -#-' H#J' -8SF# F+Y

'00 $?#2 '

) I#'<+ 8 2'E- #'S #Z'y ' 28 8 ' #' E #'<#)< -# |)' # #' HwJ' #' F' ' ' '

t vZB #' 1# TWk#1' 8X + F ' ,' ' ' ' / '?

8 '<+w88E8 #F '1 2# +F###' JH + J 8+8-' 8#-#'

W E)) 1 1' # '-8)' i8 '# -#<#J#8 #' 2#' F' -J+#< -' 1F#--8

pC#Z1 1#)< ' 8+ -S 8-J8 8-' '1 [-' F -8SF8 # F-' '1 2# 'H J' 2h '# E#J '-8 F<8+'

#)< ZE<- J1 89<m+# # F+7 Z I' 18' <+wJ8E8)-' W8<8' E' #1#0 ' + #J 'A' JJ8E#1' -#' I8'

I E# ' 1#' 1##11##E# '2# 8+w' " -#Iw' 7' - 'k

1#4#38I) '8 # ' - 2#-I# #8 8-'-) 2 H #I ^' 2# 8+' #' ' 1 2##-' '2h ' -F -8SF8 # F-' # F-

+ E8-8+S2<) +S12 '# '<+wJ8E8## # F- @&J-#### '82#

9Y ! . !

] 454(2= '(I '(5= 71 <=2'= - '' (55= 67= 8; '@ = ((2= 7'5 '8 71 84 ?48; '@8'884 4 =5543(?75 I '(5) # 2'=5'=5'84 =5(' 41 7 5 87@4 4884 ?; ;2((!) =2'71 1! ?48'5' '5] 454(2= '(# #- 67 4= 41@= 4<2= 7' ! 714 (; '(5 8; '@ = 67(7= '@ 67'567X 6 4 ?7=8 0 ?4 7 = = ?'54 ;=584;7 ' = (F # 4 72 '5 ; 4G78 4 :(855) K , \41 - # B 7 '@84 48 67'5 78 . ';(?(8! 0(4; (7 41 =15'(8'1'2 ;=22(('5?';(5 @ '1(1! <=2'(8; '@ (<7'884 (5571 ;' ;' 4 !

5;'@' (<=2'= - =! (;'(78 ;7 ' 7278)

@ !" # $ % &# & # ' & (9 %) # # # # *+ , " # # - + : , . # , 9 # / 9 # 9 # / " 0 / ! ! # 9;

9 # 1 : 2 9; 9 & 34 " ! 5 !

A 0';' 48 @ (4;2(78 2':4 0'8 u ';(8 674 5 (@@422(5 xC=; 'O A ` # # $ B '5 67= 49@=575 7 <(;'5= (@ 4;2((6784 4 454 75 '5 2'=1=5'(42 '5 =1=5'(4@ 45 '=5(2' 8@('= @:'865(1 ?7;45 = 71 (55= 71 N 42 (67= =: '' 74 75 2'45' 45(4 @(72= 1'578 67(1 1@4 '71 0':4 5'(4 78674 (? =:' 71 B I '(5'C (2 'N 67=? =@78 @ '1= 8; '@ 71 48 (=3(554 <'2'= .=?4 ';" + # '!4! @ (8;'@7= 0'8 u ';= 49&@ =<488= # ! ! -M 7 @(4 49 M5(@('5(@ '1 2': (5 '67 4G78?41 67 49 ('?45?78) 4 ' 4 71 ?4 5= = ?48; ':' 7 575; @4 ! # + P # (? 7871 3(? 4' 2': =3(55'8 <'2' (3 (1(5' t ;! t ;!

55= ! Z, (41@= 4 67= ;488' =1'5'71 0':4 5'(4 @= 48 (5 2= 71 4 (67= (58& 2(71 48 1@4 '71 (67= '8 =8 4 = (5 7'5'8 '2' '8 0'8@(5';' B'!4! + a @= 48 (41 =: '57' =55;''(?78 I '(5 (@@422(78 ! #$ # - ` # #$# 1 @=8 (41 8771 N =: '57' '541@4 1@4 '71 2(71 = 48 (41 '2278 4'5 8 457(1 87@ (4 '=548 @72;3 (8 (:75?(5 48 @=@72'8 :=1=5'(4N 4 3(4; 48 = (2(2' 7?= 4 2=5 ' 7?= . 4 5 '8 '78 541@4 ((2 7 ?'7 7 5(4 41= '(4 =5&;722(5'!B3=?'4 ' ;722'5I8 4(@2 78674 (? %(?71 *< ':7 =7 5 4 (<'5':78 4 ' = ' ' 458'8 (? =5 41 '54;2'(;345841 F t ;!

0(4; 48 ' (674 0'8 = '('22(E # # 8; '@ ((=! ((3 (55= -M 67(1 5=5 (= 5'41= (7;2= %=;(:72(' 0':4 5';' ('8''8 4?' (55= Z ' 72= A 7# ## $ B 8' 4 '71@3 = ?42:(;2' I '(5 ;7G78 (2'7? 4841@2(49 ('5 ':2'6 34;(. 4 '(('8''8!

5 3=; 4841@2(@2= (?4875 (: (55= , - (? (5571 786742 7 @(4 49 =?';'8 <=2'= @ !

H-Z # F 8 ' < +## ' F<< W +' F-SF8 #8 ' #h 4' ' # ? 2 8+'H) -' JJF++#' # ' +8 F-'G8-2#-'
#'2] 2 k ' \J [V28 ' - 2 -'1) 8# JvZ' $ $ %&' 88 <+82U8HEF

' +&

w 8+ ' ' #-)8-) ' - Z <-S 8 #\'1 18# ' #8eW I] 8' <+#11# ' < G# ' E8-# # ' +F< 8
#Z ' # ' # F')1 # ' : F-8' E8' 8UF-' ! FJJ8-0
^ - +c F-' +# <c F+' n FJ ' -# `8 ?)' #-' " S @818*0 $ ' # 6' 8 7' # !' '
K' b ' + \8 D 1 *\'1 > > ' ' 1 ' '] D #\-6 ' < #c8' d J' 31< ' ' #' ' $ ' ' #' -
e' b 7 7 # ' + e'' 8 8 : 8 H *\4 ' % 8 f g h N D #' ' ' ?' $\ ' \ '
9' C 'M' # ' 8')# # ? +# 82< j F ' g ZZ a] 18' # # Z# cW ' < - ' F+J8+] JHF ' 1+ 1+8# ' -FF# '
Z < +F# A7' 8 ' < 1 F+' 2 ' E8' G8- ## 8U -7 -< 2# ' c- ^' 1F# ' 8 # ' 8G# ' <+ -<8+ ' 8 '
< T#1#J]' EF+ 8' UFZ' <8+#V# S ' E' # ###<' SUo- ? 82' -8<F2 -08- ' # ' -F2 ' -F ' '
7' A ! 0) n7)] 8' f W]) c 8' d8J' I8+18 ' $ - ' ' ' ' $ #' G' &J-F##
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#' + 8 ' \ d #) ' < A ' ' B' # *`#<' < 8 *+ #' E8' 2 FE# F-' ? +# +F '
SF E' #- #F ' 1 #2#Z' & {8-' < V' E Z' 8X 2# Z0004 / Z ' A' I JFF ' #

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J)#g' g J' 1 2#F ') ' -E8 ; 8+ # ') !' } ET ') 8# F- ' ' BCC ' ' # F' 28X E+#
] G Z' SF ' 8 <) +8 # T 8# ' +4' W1 ' aW, #Z#4) &8No ' # SF8' # ' F-' # ' ' #<- '
)EF] ' # P | '' ?F E8' +#G8 ? E#[ ] ? ?) 8' ? Jq k E ; ' f8 ?') 8#B' + G+ <H#' IJ 8+8-' 8X +E#F '
E -J 2' B WZ' ' % + , -')' + PW4g' SZ ' #G8+ J # I8+ ' S##W' # ' J
C ' ' ' ' +D - * ' # , ' ' EF' : FW' #G#2F+' <+w0'
? J8--8+F ' 8 ' 22G8+# J ' g 2#-' # 2F ' I#E8] ' ! wJ #2 ' X#' I#X' E8128 E ' 8+F ' ! wJF2 ' X#X '
8 ' H J' I8 <+#-' U#- ' 8# # # # ' - #-' -F<T1So]' 8 +] ' <# # 8 ' 8I8+ # ' SF#' # 8+ +F '
b 8-' ' <+ 1] E#--# ' 1)) 8 -<# H))' ?' R
q' E#J8 ' g8' 22 #<#8 8 ') ' E28# <$' Eg %< F ' 1W#) E8 - + ' ' - 2F ' +# ##-' #-' # #
^' 8 # ' #) F P 8' 22 E28# ' <E' k 8 ' E I #8 -' I8+F S' 8 ' #<- ' -J+# 8 E#' + # ' SFZ'
F8) ' ' 2#FE' -# #' o ' # < -# F ' < --8' <+ E# ' SF ' F-' JJF+ 8' # #2 #E#
1 +<# !' +8I ! #< F s' H# X# ' <E + ' #G + ## #] ' <+ E# ' ' - 2F ' # ' + + ' E28# ##
W98#Z' H G+ U)# ' - E 8+# p# <EE)' 8 ' #H) # ' J ' SF E' # ' EJ-J+# ' -SF8'
Z' ' J') # ' #) #JT 8 U)) E8-) 8J #8
+H0N' ' +%' ! \ ' ' + 0>&&NU<= 7<&'`- , N
' &88- U X8 <2#)) #)' # E#{8 E#-# ' 1 2#F ' !8< 1##### ^' 8 ' SF#' &F 2# #8 -8 ' # E8E8-J+#<-# '
#H# ' # #' E88--8' + F- ' F E8-J+#<-y ' -U 8-uN 181W'' ' ' B ' < - ' J < #I# 8 ' $ +#J#y'
+ F+#I#' E'] #F ' # E8' 18 E' J8p 8) ' 8E# ' < G###W' ' 1 ###' AA' # # # 8
E# + 8--182# ' -8< # + ' E#8#-' Eg# <#' <) F-' E8-#E8+ +#
: F# 8-#)' # ' 2 ' 8+ ' S- #' ' <J<F<g) {<# F ' HwJ' -J# # ' #SF# # F-' 2# J+###J#-'
' E8 8 #' 8 ' J F J # F 8+F p ' <EI#] 8' $ +#J#y' + -# ' E8X' &F 2# #8 -#-' E' # ##+ '
31H4,#-W# 7' & 2# G8<-#- ' E##2# + 8+' +F #E8+T18+8 -))' < FJ ' SF-8E ' E8' # 2# ' < - 0 '
S F2 # # ' -F ' 1 2 ' - [u # #' E1\# #2' ?'

X#I   &   & ! $!

t ;!

;875 '5 3'8 <=2''8 4(?41 67('5 =?24'(5= (: (55= Z - (? MZ ' 41674 4(67(4 '5 =?2;'(5= =?';4 ?4875 (: (55= (? (5! ! (4 4 (4; = = ?'54 846775 7 78674 (? (5571 7:" 3(4; 5= (5?(875 !) K - #) # %) " B) =;4?75 ?4'5?4 <=2'(= ?'54 (? (5571 Z N 67(4 (7 41 '5 =?';4 =?24'(''= (: ! (55= '8 = " # $ 8; '@ (875 78674 (? (5571 Z 4('5 3=; =?';4 7:2'5'4584 75(4(?41674 1(5'" 8; '@ (875 4 49@2';'75 '5 4G78?41 <=2'= !) 3((;4(875 4 (;7(67(4 ?4'5?4 846775 7 78674 (? <=2! !

!) % # #

s7(4 (? =?';'8 <'541 @ =;4?75 (<=2'= 1(57 2=5 4 @72;3 '= 4 4 3((; 4 ':78 0':4 & 5';'8 \' =5';=5 ;='= 71 492'':45 78674 (? <=2'71 , M 4 (5571 -! '1(?7= <=2'('!4! 37G78 =?';'8 <=2'(4 - 0'8 = '('5 5' 4 8(241 &: 4 ' 4 (2'5 75 (; 4(= 75?= (? 5(' '(41 ! (';'' 84? @25 (<=2'(7 5 ?4875 !) s7(4 41(545 48 0':4 5';(8 8'155('1 45((5 8674 (? (5571 @ (4?'; 71 -!

4 =?';':78 7:2'5'458':78 3(4; 8; ':' ' ?=; 78 ! (4 =224 '" ! '5' ('8 ':& 2'= 34;('78 '5 @'8 =2((? '5*F* ' 71 .';(?71 (;3'=541 575; 7;41 ?4 7;m'5 3(1 4 3(5?=8!

- . "

34 =224 4 ': (L '8 @=884884? =< 5= ;=@L =< ' 4 5(;3I8 55(28 3(4 4 :42=5 4? = '1(4 834 8= <((8 ;(5 <'5? N 5= 87;3 :4'5 145 '=54? '5 3'8 ((2= 74 = @2(;4? (1=5 3'8 ! 3=V4 4 @=8848848 V= ! =< 3((7 3= :L 3'8 ;=5 '57(= 1(m4? 0 - (5? 0 N =< V3';3 34 <' 8 '8 V ' 45 =5 @(@4 (5? 34 84;=5? =5 @(;3145 ! 34 :==m 0 - '8 45 ' 24? K '8;422(54(0':4 5';((5? '8 378 ?48; ':4?*=5 (24(< (34 :4 '55'5 =< 34 :==m!

K 5 3=; 4 78 = (; (2?4 @ 4 '=8= =?';4 :(84 5 '67' (71 0':4 5'(4 =57145 (;=5 '545 7 !

A ! (; (78] 454(2u ';=8 49 ': = (7 2'45 ';= ?4871 @ 78!

K ,! (; (78 3'8 = ';78 ?4 :422'8 <(1'2'84 I '45= 71 7 5 84;71 '5 ';41 7 5 ;=5 (5 2= 71 K ?7;48 (14?'= (4;72 9''" 78674 (? (=(554 ((3! ; '@ = 4 <4 4 ;=(42(54= 49((78 K (674 49 7 = (@3= 49'8 45 4 (55= Z, (: 5? 4(+ # <'?42' 4 ?48; '@ 78! B C

K ! 57(248 ' 4 5(;3" 2=51(;5='8458'8 67" (: 5 78 '5= 7 (<w B,C (5=5';= ?4 5872(K (5; = 71 4 @=8 4G78 1= 41 (67=?(1 5=5L1= ; '@ = 4 ;=5 '57(5 7 (? (5571 Z!

K ! 5 '6771 =57145 71 72 = ?'; 71 3 5';3 =5 ;== 71 ! %'?4 7 4884 =1@45& K ?'71 @ (4?'; = 71 55(2'71 22 4 5(;3'! 09; u15'(1=57145 (42= (; '5?78 '('22(8 '8& K 8'1" (; .4 4 45?'88'1 " =(55'8 I '45 @'8;=@" 2=L5458'8 4 .=88458'8 '5 0':4 5'(67" ?'4 K 9''" 1458'8 ('" Z M 7 ?75" '5] (22'z =:'' ;=1@(((4 '5 7571 375; =?';41 ?' 48 (K <74 (5 !Q

34 3 =5';24 =< 34 ;= 8 :4'5 34 <=7 3 (; (:= 4 145 '=54? '8 '1@4 <4; (34 45?0 ' 4(;348 < =1 34 4('=5 = ! ! - ! 34 = 34 ! 1(m4? '8 45 ' 24? =5 34 :(;m) K 34 =5 '57('=5 =< ' 4 5(;3!Q 8 ' 3(8 84 4 (2 ;3(818 34 4 (4 '5 ('=78 @2(;48 24(48 =< @(@4 '584 4? (5? 8=14 =< 341 V ' 45 '5 (1=?4 5 3(5?N :7 34 :==m ' 842< '8

B C 4 4 K + # B   B,C 4 4 A + -# B

+# 8 ' :'IZ +) 8 ' ' 1 F E' H8' 1)'EW-W) I#E2# ' ' 82#8 I8' +82 8-' 2 ' 2##-' gY
?)' p 88-8' 2 # Z # 2)) 8 Y 2) T 1 ? r ' 8G# -' ' 8' 28G# 28' 1+
44 H8' T 28' 1' P +1' 1 ' H8' 8 +' B' * ' -' ' E81#J#8HJ ' 1+ ' H8 J8' ' H8' 8 +' C'
W' ' -' 1+ ' H#-' 1' ' '^' E#-' G #F' E81#WIE I87' 1+ ' H8' 8 +' K' ' H8' 8 +' B
'#-' 1 H81 H2-') ' F' + ' E] !))' H E-' ' H #2' 8 + ' H +E2 ' 28G# 28'
66 8 8 E 2K 2 I ' ?' ' 'O ?q
?' 8# G' F J)) 8E' # H' H8') '# G G8' ' J ' 1 + ' ' {o F' 1' H8' g' 8XJ8< ' 1+ '
- #' ZG Z2' #Z1 -' * 8 ' 8 1 1 ' C E' #1H#DE' E18 k #82 1 ' ' H8' 8 +2#8- ' E 8' ' 1# E'
#-' C ' E' H8' 2 8- ' . K ^' F ' 1 8-8' +8' 8# H8+' ' H8' 8G # G' +' 8 E' 1' H8' 1# g^' 1 +'
H8+8' +81 I8-' 81 +8' H8' E) D)' C ' F ' -' ' 1# E' 1 8 ' 1 2 8' ' +-' JH#812 ' 8 88 ' H8'
G# T' E' #f # -' #' ' 8E' 1 ' 1 8' 1 ' H8 ' 1) 112#) E' E' # ' 8' +G# 2' 8' '
1# E' # ' -8+ I8E' H ' H8+8' #-' ' JH - ' # ' ' ! ' 1 ### C' ' _
11 ' 8' 28 1' +E-' H\' J 8# ' 1' 2 ' g' HF ' # ' ' H E' E' # g' I8+ ' E#118+8 ' 1+ '
1# 1 +] 1 |2H8+) 18 ' 81 2 I8' + 8) ' # *) *d# d# ' +82 E' ' H#JH' ' 1# E' H8' E 8-'
9 L . K K KBC ' E' KKB ' 8X8E
E'd ' ' 28 1' 1' < <8+' ' H8' # G' #-' +# 8 ' T ' ' !H P' -F<< -8' ' 8' ' $+81 J8' E'
' ' H E' I8+ ') 1 8# ' ' H8+' ' #E' 1 g' E1 ' H\' E 8' 1' I8 8+ ' KLC ' F ' H#JH
8' <+ 2 ' H8' < + H 8+#' 28 I8-' 1' H#-' g' 8+8' 8 8J 8E' E' F E' G8 H8+' # ' # -'
<+8-8 ' (4!' ' / # !'

8'8<4N

' h 8 i $ 6 ' < ' j k

8- ' 8 2 W D) 3' ! 8J 2) #' E# 1 - 6) - E #)))' 8 ' # J#<#8 -' ' ' B'
F2F1 ' <# P -81 + ' f k J +J 0x / 2# ' +8J ' +E# 8' <+ J8EF ' E' F
F-SF8' C ' -8E' E8# E E8-#)' E' F # 2 2E ' ' S ' ' -8SFF F+' +8-' G8- a' JH+ ## 2 0'
G#8 ' H+E2 8' -SW#8 E P #2K K E81 < W# 2e ! K') &8- ' # ' ' ' K' F-SF8' E' '
B ' : F P' < - 1 ' ++ +' E# I8+-#-' # H-' -J+#< ' -F ' F-SF8' E' F ' . KC ' a 8+ ' I#X'
1 G#1) -F ' 7 ' E' 1# 8Z' E8-#H + ' #E' <' . _ '
&8 f E#J8' ! 1 ' 1 #8HE ' -F#) +1) 8 ' E- + ' < G BXX## ' 8 ' / 2 H8+2 #' G G# 0

9 ' . !

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(7;'88'1 (' 875 ' 67A' O':4 5'(1' ('' 75 ' '5' @ '1 '8' <=2''8' 2'7G78' (14 ' ' ' 4(674 ' 846745 '2C78' 4 :'8 ' 4 ' 846747 " =52'54' =;;7 45 '(' 3'4' '5' 7571' ;=22' '1 78 ' 67'(' ?4875 ' '5' 42'67'8' =?';':78 ' '5' 67':78' @ '1 (' <=2'(' '8 (' ?48'?4 (5<5 !' B C

=2!'2!' ' 2'5! !

=:4?43' =4 &2C@4 ' ' ';' 22 bU5'4' '5='@' 4 7(' '5' O':4 5'(!

=:;bU;2" =42&:@4 ' 5;' bU'54' 5='@' := 2=@;7:' ;= ;G5;U';' @' ' '' 1 '4 ' '5:5':' @' ' 5' ' 4' ' 22'2:4 ' :" @7:1' 7 5 #U& 45&:bU;:&@ ' '@7:' 2bU 2 :@bU' ' 2=' ' @4;:' '5=45 ' 1 4' Z2'2422 ' 54 ' 5;' 2=4 '@4' 27 @4 ' 1 4' 22 14' 1='@ ' '5' :' '2' ' ;: '@' Z' ' @45 ;3 '@' @= 1 @:' =:; ;2" =42!' =; :' =@:41' 45@' 2 ' 5'7' Z' 24;3' 7'5:!' B,C

*r' =: (;378) @ # -8'N a' <'2'58' (5'" (U5' ' ;=1 :78 78 ' 451' ' .4 72'8' 84;75' ' '5' ;4' '4 (2" (1@" 2:' ' '5' =1= .4 '(' =22'8' ('8' 8(5 7'54' ' @4 ' (: (?'71' ((241 ' ?' ' ''8' ;424: ;1 ' <'2'71' 2'2?" 22278 '8 ' <'''" (= ('" 4 =4 8 ' <'22" (5'' ' (5' ' (?' '5?';(5?71' (4'5' 8771' 4 ' 55' ' 67=8' =;;'?' ' =: (;378' @ # - ' 42271' 49'5?4' = ' 7 ' '5 4 ' (45'4''848' 4 ' ' ('?'7'5' =55" B'!'4!' '1 '?'71' 4@ 45 '=5(24' O':4 5'A!C' B C

' !) +K' 5;'@' ' ' !x (8' 67A' ;=5 '54 ' (55=8' "7 ' =4 (' BO':4 5458'8C' ('

K' ' :=4@ :' '5' @3=@7 2' ;= 4'5' @ : ';' @4:'2
K' =';;' ;4;' '@' 5P4' 1 :2' ::5 ' ' ;= :413'5!
K' ' *R2: '5' ;=5' 845 5 '5' =(" 1 ;' D%H '@4' 1 1 '
K' 24' : ' :2'5 ' 2!' ' ;4;' '@' ;@" 1 '24!Q

'?' 48!) ' ;(@ ' (4' =@52' ' (?' = 71' '(?(;3" =48 " B.4 '8' O':4 5'AC

s7'5 45 " 4 ' 5= 4 (' (55" 4 ' ; = '5 (' 4 4 ' B MC
:' ?(1= (?' (' ' (41' 75' 45' " <'''" ('A' ?'24; A
75 ' ?7= (55" - ' 5=5 45 " 4 ' 4 ' 1 '224' B M-,!C

9 (' '5' 2'(;' ':2'= 34;(' =' 4784' (145' 4 78' 2 F+##' 5=5= 8A;72= 8; '@ 71 ' 75?4' 3=8' 4 878' O':; ''';=8' ' 4 5(;378' 8A;72= 75?X;'1= ?48; '@8' ' N' 49' 67':78' @'(54' '5 422' '5'78' 4 4 48' O':4 5=8 ' '5' 87@@7 (5?'8' (55'8' (5 4' 3 '8 71 ' O4: (';('" %4 ' (4'5' @ A 72'884' %4 8'=5'

B C' =2'71' @ ' =51' 37G58' =?';'8 ' , ' =1@45?'71' ;=5 '54 ' O'8 P '(4' 5' 4 8(2'8 ' 49' ; ' !1# ' $ ' < # ' ' # '4 ' ' 2' 7 '8' ' (' =<278;(71 ' 7 ' 5=5' 5'82' :'54' '5?4' 24 " 674(!
B,C' '1 (' 671' ?4' O':4 5'(' =;;7 75 '8';' 8; '@ (' 24 75 7 ' =2'= !' :!' =2715(' , ' (?' '1 15' @('5(8 ' 2'54(' !
B C' ' 457'8 ' (5 ''8 ''8 ' (;'2'8!' # -' ;(1@78' 48 ' '5' '?'(' 7:" 5 '67" #4 48' .4 '(1' 41= '1' ;41' ;=5?'?; 75 !' 4' ' 3=;' .4 4' O':4 5'1' ;=587245?" 875 ' ! ' 1*' + - # # ' 4 ' . ' (1'5(' 4(654' ;=5<4 45?(' 877 ' 651' 87@ (' ?'9'178' @(!' 9''' ' 4 ' '5< (' ?4' .4 5= $ ' '5' :'8' 55(':78 ' @(!' i
B C' 4' ?'1 '?'= =55" '?4' 57(248' 3=8' (?' (55!' -!' U

"+ 8J +F 1ʻ ZZZ -ʻ ʻ E ʻ Eʻ +c- ʻ L.Aʻ JF # UFX2 ʻ XXʻ 8+<+8 8-ʻ # -### ʻ.) ʻ ;ʻ G#3 +cʻ 92 #E # #<ʻ E 88+8## ʻ E#J# F-ʻ "+ 8J#-ʻ F1ʻ 8 ʻ <2F+# # #SF#ʻ $ +8-ʻ "+ J# 8 ʻ > 2 #+ʻ#Eʻ 1 J#F ʻ <SF Eʻ I8+ ʻ #- ʻ -F<<F # 8+ ʻ 8X#- #0ʻ 2##8 ʻ -8Eʻ SF Eʻ J 28- ʻ2#8 8+1 -ʻ Eʻ !0ʻ$ <J#ʻ 8 < + ʻ ; 8+-# 8ʻ "+ 8J ʻ F18 ## F+ʻ, Yʻ 8ʻ #S ʻ # ʻE#8 ʻ J #<#22Eʻ 2# Eʻ 1 8+2ʻS ʻ ; 8+-# ## XXʻ 8+<+8 F ʻ # ʻ 2#FGF # ʻ # +ʻ + -2 ʻS 8ʻ ; 8+-# ʻ2 # ʻ<8+ʻ E ʻ + 8rʻ ʻ <+ 8- 2F#--8ʻ I#E8 F+ʻ 8Xʻ $ +F+ ʻ J# 0ʻ # # # -ʻ 8Eo2-ʻ ʻ $2 # # ʻ 9 ##2#)ʻ 2S 8ʻ) ʻ SF E+F<2#J#ʻ 8E# ʻ ?ʻ # JH# # ʻ # ʻ F- ; cF## # C?) ?ʻC r#e#) ʻ ?ʻ

) ʻp ʻ8!$888<ʻ 8D8)+ ʻE8ʻ c GU1< ʻ# E#8ʻ #ʻ -])ʻ)E8J# F ʻ HF Jʻ F ʻ & +2#ʻ 8G*-ʻ +I 4 8('XT !UJ T' **'-! | I*" ʻ ʻ *

&T ##)]# # P 1)ʻ .B. xJ -8 #8 # F-ʻ JF+ $\+I# ʻE J #--## #-ʻ)H+)+ I<#E- #0 IcGEʻ) 8< F ʻ!)) ʻ# ʻ c 8+ # @,SF#ESF#Eʻ --8+ ʻ +8J8 c +8-)Yʻ <)ʻ #- +ʻ 2 8 E +Tʻ F 8) ʻ IFX ʻ)G8+ JHF ʻ 8 ʻ /# H8+ 8F-ʻ H 22FJ# ##+ʻ E#88 -ʻ q) 8 = ʻ *) 2 V *2ʻ P) Tʻ # ʻ ʻ +818+F Wʻ !J $F#Eʻ 8Xʻ ##) E<01U#^I,# +1 # WZʻ) ʻ < G 8- ^ T+ʻ) 8 ##ʻ <# 2 ʻ #U#< Zʻ H#-ʻ I8U #-ʻ #< * 2 +000Mʻ : F ʻ - 8ʻ +# 8-ʻ 8 8+F ʻ 8ʻ Mʻ SF ʻ # 8 !T E7ʻ aPa ʻE* [+ʻ 11#U8 +8 - ʻ Eʻ c 8+ # ^ 8 ʻ SF E ʻ +# 8- M ʻ $#J #-ʻ 8 ?!J #-ʻ #)< G U!F ?0 S ʻ 8 # + ʻ 8 < +8ʻ #ʻ +J2## F E#ʻ E8< #

66 P# ʻ8ʻ-P 1FU ʻ<8+#c 4)ʻ,AYʻ 0

ʻI8+ ʻ# ʻJ <c 2 ʻc- ʻ 8 cFZʻ !8 +F# ʻ# ʻ # 8+ #V Iʻ EI8 F# ʻ+818+ʻ EʻMʻ F ʻ Gʻ <<!ʻ#)< # #?2 Pʻ P8+-#< 8 ʻ#2#ʻ +#ʻ +F + ʻ 8 ʻ I8 8+ ʻ Eʻ 8G# 8-ʻ) !ʻ + A ʻ+ ' ' H 2ʻ $I(

(?4'5ʻ U=2=ʻ(@ @U4 _ s''? 5 =8' 8ʻ =pp?h 78ʻ ; 7G78ʻ =@78ʻ #ʻ ʻ# ʻ?' ; 7 1 8ʻ =1@''(?=ʻ 1 4 ' ; (ʻ 1ʻ X P ? Uʻ =?' ; 4ʻ =?'4'(5= ʻ75?4ʻ ʻ ' 4 5(; :ʻ (S 1 45 (ʻ49 ; 4U i '?'T8Nʻ =@ T5b 8'= T' ʻ4 G U 8 X Uʻ w7@ ?''8 ʻ @(!ʻ , ʻ 4?' '=5'8ʻ 7:2'5'4''8'8ʻ 4ʻ 8fʻ E '= uʻ Z))ʻ ʻ #]ʻ J \ U) Z #?

] Iʻ Lw 'uʻ 1'?6=Tʻ ? ; (ʻ67(1ʻ'5ʻ 1 :4L?(1ʻ'5 = 1zʻ ʻ I(';'78ʻ 4 ʻ67(4ʻ'5ʻ Aʻ =5<488'=54Qʻ 6G58ʻ @(88' 1ʻ r 'z (ʻ'5ʻ 8R<2=2ʻ'5ʻ 0':4 1'(ʻ2(654ʻ(?ʻ(7515 0'ʻ7 Rʻ5= dʻ 884 '78ʻ'5ʻ=@4 4) Kʻ 34ʻ . 42' '=5ʻ=<ʻ 3yʻ 5;'45ʻ 6 Rʻ'8 4ʻ 1 U 5 '8 U (ʻ%4 82@G ((ʻ 5=5ʻ RR(4 (L5(1ʻ 4 8 4ʻ49ʻ 4 8'=54ʻ] A; (ʻ'99ʻ 5 4 @ 4 5 1ʻ 54654ʻ'U(1 ?4*1 (ʻ ' 75?('7 =@'5'=545 ''(:4:(5ʻ 4 4 48*<'':'4 (ʻ ʻ 58654ʻ (?ʻ 41@= (ʻ ('';345''ʻ 4 ''458'8ʻ : : ('8 A;Y2=ʻ ' 67(16'#449] T4m 4?';$: ''@ _<279'_ʻ ʻ ! B,CHIs(24ʻ 9 U;'2@ P 4nʻ 9:'?1<ʻ='ʻ E '*@($ 2!ʻ*ʻ =5<4 *] ' (2?51 ʻ67ʻ 4(?41ʻ 49ʻ : '8ʻ 0':4 5'?8ʻ 45((ʻ =@= !ʻ 0':!ʻ <= ʻ Uʻ ; !ʻ(*@Tʻ Z ʻ4?!ʻ (5;=<= '! IB Cʻ 455'' (@' (2(* % ;''@ 2[4 * `=5'Aʻ <4 N' M*2Nʻ @!M-Iʻ 4ʻ ; (@!Mʻ':!ʻ @!ʻ 2 2ʻ4 ; !ʻ 9!ʻ Kʻ R =548 454&ʻ r<' ('5ʻ 4T (4 575?ʻ(?ʻ 2' (5 5'(1 (5 y 1 !ʻM ʻ'5 ((8 (4ʻ 1=5?'=: '554 55ʻ 0R:4 5'(1!ʻ K'' *U b(ʻ(5 y 1 67ʻ $ [b u'?V 4Lwʻ '; ʻ?4ʻ 67'2=54ʻ@? 5(:(5 55(5'1' 4ʻ4ʻ75=ʻ'1@4 5ʻ;=5 (ʻ '=5;8ʻ K ' ?48'5414 GL7' 0 $5ʻ4ʻ (($' ʻ<@ X:((' ' R5XzJQʻ +* 4ʻ t=<'8U '?4ʻ 5?';48ʻ(?ʻ. 4 !ʻ 0':41!ʻ ='!ʻ ! 9 \# ʻ. 4 '=ʻ48 G72ʻ 2 5'('U '= 2ʻ541@4ʻ49ʻ 0'U(5'(ʻ'5ʻ0':4 5'(1ʻ1' (5 48ʻ@ '1=ʻ@4 4545'5ʻ(?ʻ@(48ʻʻ 0':4 5'((ʻ 78 (248ʻ4ʻ ?4151!(?ʻ P 4(248'&' (5<35?45?ʻ 5=5ʻ 875 * (' '(?ʻ '5ʻ 2=5'(ʻ ;71ʻ ʻ'5ʻ +4(?41* = '5@'z) z2 (?$' (!2Uz'Eb'?UU B 5U4Xʻ 34 ?U*Cʻ 4 (5ʻ'5ʻ =1' (=ʻ3=?'4 5=ʻ '=5458'ʻ !* '(?ʻ U 4ʻ. =(8ʻ = ;4Cʻ'(ʻ 7 '14''84ʻ +

9 ''" ' . !

9 (' 4 '(1' '5' 2'(;' ':2'= 34; (' =V458; ' =;3=?'" I 2='5' (145' 0':4 5';7 1 ' 8; '@ 7 1' 884;72=' 5=5=' '5;'@'458' A' ' ! ' - ' B' '!4!' 7?' 4' ' =; '' 8(@'45 48' . 4 '=3'8' ?''2;'71' (1'571 ' t ;!' '5' 67=' (5575 '(? 45 78' ;= = 71' '5' 0':4 7'(1' 49' 0'8@(7R(' :'8' 4 :'8' ?48; ':'") ' !

"4 ;:;'5: ::' :' 7L8' :' ' P @: ''4'
@@';3' <4 ;3;1 ::' *U@:4 54
- # 5# ' # # ' ' + # 9
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X@ '1(' 75T '?'48' '5 4 '?7='G4G75'(' B'!'4!' '48' = '8C
7'' 8X@ '1(' 75(4' 45'= 71 ' B'!'4!' ;= = 71C
s7" =: '574 7'' ' 4 (8' . 4 '=5'8' 0':4 5'(4
@8'8' #(245?'8' (''8' '5' 14584' (; =' =2'!' B C

2(34 478' 49' :'8' 4 8':78' '@851' (5571' (? 65 78' ;= = 71' ?41=58 (4' (4?' 7 !' 55=' K' '''67' !' 4 '=?'" 72'(5(4' M ' 67" 48 ' G79 (' ;(2' 4 71 ' (2=1=5'8' 4 5(5 '8' 67'5 78 ' 4 ' 175?" K' , M ' L;2=' =2'8' , ' 7584' , ' 2' 4 (' <4 '(2" ' #(245?84' ('^' ;=5;7 4:(5 ' ;71' 8X@ '1=' K' ?'4' 75^ ' 4 ' 67'5 (' 34:?=1(?'8' <4 '(' 54;' = =' (2=1=5'8' 4 5P ' '1=' 54;' = =' 81;72=' (:' K' (< '8' ('?'8' = 7 ' (?' (2=1=5'8' =:' 71 ' 4(' ;=''549'=' ?';" 1458'8' 34:?=1(?^ ' (;' 75('(' K' ^ ('8' (;;'?4 4' @= 7' ' 5'8" 8=2=' 3@;' '@8=' (55=' 4 =' '8' 4 (' (5578' (? 45 78' ;= = 71' '5' K' 0':4 5'(1!) 7: '2'(' 871 '8 (!' 4?<= 8(5 ' ;4 '78' '5<4 45?71' 4884 ' =4 (1' '8 71' ^;72" 5=5'' K' ;h2;72=8' 4 =' ?79'884' =@4' (245?(''!' ' 4 5(;378' 45'1' '567' ' K' ' + ' # ' A') ' ' ! # ' - ' % # ' ' # B

0^;' 875 ' (5 '67'88'1(' 0':4 5';(' 67^' ;= = 71' (? 45 71' '5' 0':4 5'(1' 48@';'75 !

s7=?' 8" . 4 '=541' 75?4' '5' 0':4 5'(1' 454 75 ' '567' (178 ' 49' 0'8@(5'(' ;2(1(5 ' =1548 ' 4 '(1' 0'8@(5" ; '@ = 48' ;71' 8'?= = ' B, C' 4 ' 45 '71' ('(71' '5' 0':4 5'(' 5=1'5(' 0'8@h5';(' 84 ((' (' =24 (^=!' B C' 5 4 ' (5 '67'88'1=8' 0':4 5(8' 67" 0'8@(5';(1' ' '541' '541= (5 ' 3=?'4674' 1(545 ' 5714 (5?78' 48 '@ ^?'; 78' ' 5 78'78' =2$?^78' ;7G78' 4 :(' 49' 3=;' '@8=' =?';4' . (V2'58=5 ' - , ' <=2!' ' =2715(' , ' 2'54(' ' 8';' 846775 7 !' B C

B C' 5' 45841' (; ('88'171' (55" 35';= 71' 0':4 5'1 ' =2"@4;72'(' 4 '8(; 71) 7 "49@2';('178' '5' . 4 !' 0':4 5!' =1=' !' *%'?4' 5?';48' (?' *%4;48' ! ' 0#5 ' ' '5' =@4 4' '8 =!

B, C' K' ;= '(' 4(?41' 4 ' 0':4 5'(' ;7G78' @(48' @ '= 48' :4 '(1 ' 4 ' (5 (: ';71' ;4(571' '5 45?55 ' 75?4' 4 ' K' :4 5'(' ?'4 (' ;= '(' (7 41' 67=?' (' ;= = 71' 45 ':78' ;=2' 7 Q' t ;!' ' !' ! ' ;!' !) :4 =8' '5' 0':4 5'(' '5?';(' :'8' 4 :'8' =8'78' 1;72" " ; '@ = ' 0'8 !' ! ' ;!' ,) 0':4 5'(' 5872(' '5 4 ' ' (55'(1' 4 ' 0'8& K' @(5'(1' 8' (' 2=5 '= 4' (:' < ';=' '5' := 4(1' 8@('=' @= ' ' '' !' 5G78' @(48' @ '= 48' '5 45?55 ' (5 h: ';=' K' =;4(5=' ' (5 '('5' =''(;'(4' ;' ' (41 ' (:' < ';=' 8':" '5' ' ;'71' =;;7 45 41 ' 8@('=8=' '5 4 (22=' @ =;72' K' 8@4; (5 ' (:' 4=' @ 4;'@74' =1=5 = '=' 7:" 4151' <271'5'8' =8 R51' 48 ' ' ` $#' B'!4!' 2'2R:4 'C' M) ' K' ;=78'8 '1 !' 01;' (' ;= = 71' 45 ':78' ;=22' 7 !Q' ?!' 0(4 6(1@'

B C' %'?4' 4 !' 0':;1';(!' ='!' ' 7:" ?4' =241(8"] 4= (@3'(' 0':4 5';(!

B C' '5 78'" @78' 3=;' ;=58 (' 4 8':78' 0':41';'8' i , - ' (' =?';'(' <=2'=' M' 5514 ('8 ' 4 ' 0'8 = '(1' %4 4 '8' 4 ' = " 48 (145 " ;=5 '54 ' (?' '1' ('=541' (1'5'8' (8;3(2'8' 4?52''!

$#8 ˢ $! 2$12 y !4 '

ˢ k D8) WJˢ #Zˢ + ! ˢ <JH8J
B2a82# U ˢwXV { &Uˢ J#U 1,) 8JKD)

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ˢ n6W\ F-ˢ 1#U#o-ˢ E ;ˢ ˢ 1 P ˢ DZZDZ7 1#2##]G J Pˢ E##8J #ˢ G + ˢ 1 J# +F###
: F# # # ˢ $] 8+ˢ I8- 8+ˢ -U#<+8 -ˢ #]< 8 F Z@#-ˢ $ 28+ˢ 1F ˢ ! J# H +
ˢ 28 # 8ˢ UF-ˢ " H82 -ˢ #22F- +#-) #SF ˢ + F+8- ˢ G+ + 0)
2 -<) #) ; W#' 12 8 +F ˢ 8f#8+#) ZL+78#I2g ^ #S## #Zˢ / E# #) 8G F ˢ J <8g # 8+ #Xˢ 8X
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ˢ0? - ? ? [*) d# ˢ " # PW?)ˢ)8 - #1+Hˢ &F 2# #+#F ˢ <<822 #ˢ JFUF-
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$ ##2 8+I B8ˢ)) 8 #- ˢ -# 8ˢ V*ˢ 2,#Z3) 8ˢ 8- 8 #ˢ #- +# ˢ $ #I8+- 28ˢ , Y
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2 , ˢ 3 * - >ˢ i 8 ˢ $+ 828 E+ˢ Tˢ ! -8#2-? Jˢ + 8 X < -F# ˢ EJˢ F-ˢ $#I#-# # F-ˢ
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ˢ, W#ˢ 2#+ u8+ # !) 8G# ˢ [E8ˢ + #ˢ 1#2##ˢ #28-##ˢ
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B Cˢ %=9ˢ (?4; 1ˢ 5=5ˢ 5 ˢ 5(54ˢ 2' : =8ˢ 2b4 VTˢN'78 '7' (5'49@ 'T'4 : (ˢ 84?ˢ Z ˢ % 78ˢ 4 ˢ 5= 71 ˢ 7 ˢ '5ˢ
) {ˢ #- +# ˢ E` 415 34584 &ˢ <ˢ . ˢ ˢ ˢ c; ?5=ˢ (@7?ˢ (=5'51ˢ 45!ˢ __Cˢ 71!ˢ A_

" ʾ # ʾ !ʾ !

' (4ʾ 3 '8 '(''(4ʾ7878ʾ 0':4 5'8ʾ ' 5= 78ʾ<'' ʾ 42ʾ8(2 4 5ʾ5=5ʾ (?3':' 78ʾ'5ʾ 3 =5';'8ʾ 0':4 7'^ ʾ78674ʾ (?ʾ G4;7271ʾ !ʾ v4674ʾ 45' (ʾ 4(5ʾ (?3':4ʾ 2(5578ʾ 67"ʾ L5;3 =5'81=8ʾ .4 71ʾ 0':4 5= 71ʾ ;71ʾ 49 4 '8ʾ8; '@8' ʾ@(72=ʾ (5 4ʾ (5571ʾ ʾ67=ʾ =:'' Nʾ 4ʾ ;4 4ʾ 2(2'4 478ʾ 67"ʾ (755ʾ ' ; 5(;3" =?';42=ʾ @4548ʾ 84ʾ 3(:7' ʾ 5= ʾ84142ʾ (884 ''ʾ (4 (1ʾ ;=1'1'545ʾ (:ʾ 0':4 5'8ʾ 787 @((1ʾ 5=5ʾ <7'884ʾ (5 4ʾ (5571ʾ ʾB Cʾ o4674ʾ '5ʾ ?48' 5(5?=ʾ (55=ʾ 67=ʾ =@4 '145 71ʾ 4 4 '8ʾ .' 7(2'8ʾ 0':4 5';'ʾ '5ʾ :(;ʾ ':2'=34;(ʾ 84 ('ʾ <(; 71ʾ 48 ʾ 722(ʾ '545 '=ʾ <'ʾ (484ʾ ;=1175'8ʾ 4 8"ʾ .49ʾ =5'';2'(?78ʾ I '(5ʾ 67"ʾ=@4 ' (45 71ʾ '8 7?ʾ <'4 "ʾ <4;' ʾ <2= 74 'ʾ 78674ʾ (?ʾ (5571ʾ ʾB,Cʾ o4674ʾ '5ʾ ?48' S 5(5?=ʾ 41@= 4ʾ 67=ʾ 8; '@ 78ʾ 48ʾ =?49ʾ 0':4 5';78ʾ ('2 42'= 7'5ʾ '5ʾ 0(24'(5=ʾ =!ʾ ,ʾ 722(ʾ<'ʾ 145 '=ʾ 4G78?41ʾ 1 (4ʾ 67(1 '8ʾ (2'75?4ʾ ?4 (=58 (4 '178ʾ 2': 71ʾ '8 75"ʾ 8; '@ 71ʾ <7'884ʾ (55=ʾ !ʾB C

4?ʾ 54;ʾ (2?4ʾ ?4 = (4ʾ ;45845?(ʾ 48ʾ ' 5= (5 '(ʾ :(4;ʾ (4 (4ʾ ;=1175'8ʾ (ʾ ;4 ' 7?'54ʾ 3 =7=2= ';(ʾ ' 4 5(;3'ʾ 8"ʾ (2'(ʾ (?1'5';72(ʾ @ (4:4 ʾ 67':78ʾ (5578ʾ ;71ʾ w41ʾ '8 (ʾ ;=5 45'458ʾ ;4 '88'14ʾ 4 7' 7 !ʾ U (ʾ ;=1175'8ʾ (4674ʾ ' 5= (ʾ <7'ʾ (9=5'8ʾ (5 4ʾ (4;7251ʾ '''ʾ 448ʾ ;4 4ʾ '5ʾ 2'((ʾ E ' 3 4?" .4 '8Nʾ 4ʾ (145ʾ (5571ʾ 44 (4ʾ ;=1175'8ʾ 67=ʾ ;3(2(ʾ 8 (ʾ 49(((ʾ 48 ʾ '5?';('178ʾ '5ʾ ((2= =ʾ !ʾ =V458'_1ʾ ='!ʾ,ʾ @!ʾ ,!ʾB C) (2'8ʾ 67"ʾ (8 '8ʾ =5872(':78ʾ 7 4:(527 ʾ (4674ʾ ' 5= (ʾ 4 (ʾU (ʾ 3 '82'(5(ʾ 78674ʾ (?ʾ <'541ʾ (4;72"ʾ ''!ʾ 5';71ʾ 45''5ʾ 49 (ʾ 4941@271ʾ (2?4ʾ 878@4; 71ʾ '5ʾ @'8 =2'8ʾ !ʾ] 4 = '"ʾ (5"ʾ,ʾ @!ʾ ! ,!ʾ Kʾ (71ʾ #(2!ʾ (5!ʾ (55=ʾ (:ʾ 5;(5('=54ʾ 5Rʾ M Kʾ 5?'; '=54ʾ''!Q) 4 '48ʾ' (674ʾ (55= 71ʾ 3 '8 'ʾ'5!ʾ 3 =5';'8ʾ 784:''ʾ 0'4 =5L1''ʾ4 ʾ(2''8ʾ @ =;72ʾ ?7:'=ʾ(ʾ ': (''8ʾ (@@=8' (ʾ<7' ʾ @=8ʾ (5571ʾ (444ʾ =1!ʾ ,ʾ 67=ʾ (4 (7ʾ '8 (1ʾ '=5L8'78ʾ 9' 778ʾ 49;= ' ('!

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L;271' 75(41' @(' 4 ' 4' 8(4@'78' '541= (' (674' 75=' 2=;=' '567' ' (5571' 3 '8 " @ '171' '5;'@4 4' (:' (55=' \ ' L;2" 75('8' '?' 48' (:' (55=' ,?=' '8 '78' L;2"N 67'(' 0':4 5';(' =9' ' '5?';(' 84;75?71' 42' @ =9'5'71!' 5 42249' '541@4' (55'8' 4 45 ':78' M' 4=145'(8' (?' '?41' <4 4' @ '5;'@'71' 4?' 4' 75?4' ?' 488^' 4 (5' (55=' 67= '8' M' @ 4;4?45 4!

5= ('' (7 41' L;271' 754' M' 5''''= 41' 4884' 75(' := (' ,Z*' U*' (55'8' M' 72'(5'8' (;' @ ='5?4' (55'8& M' 4 45 ':78' 5=5' <'4 "@ 4;'8(1' 5'= 771' =2'8' 4' 754' 467('=541 ' 84?' 75(1' 67= '8' M5=' (55=' @ '8 '5(7" @=;3(1' (5 4 4 4 4' '3= (' ,Z*' ,F' 75?4' <(; 71' 7' (55=' - , ' 67=' (' (@('] 4 = '=' !' (245?('H' = ?=' 4<= 1 ((' 48 ' (5 4;488'=' 75('8' ;' ;' 4' 67('?7" ?4@ 43458(' <74'' ' (' 41@= 4' ;P5;'2'" ';45' '8@('=' (55= 71' ,-Z!

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9' :'8' <(;'24' '5 422' ' 7' %4 4 71' 3 =5';3= 15' 4 3=?58' 4' = ?=' 3 =5=2= ';78' (?' (8 =8' r' 72'(5=8' (;;=1'7=?(78' (;' @ ='5?4' 14 3=?Y8' 846745 '71' 55(2'71' ' 4 5(;3'!) " 45'1' ;71' ' 4 5(;3=' @=5(178' #(245?(8' (5!' (55" @ '1" 3 '8 " '5;'?'884' '5' <4 '(1' Z1((' '!' 4!' (::(71 l' 8;67' 7' 4(8?41' #(245?(8' '5;'?'884' '5' (::(71' (55=' M5=' 846745 4' '!' 4!' (55=' !' ' L;2" 72 '1=' 7' '5' (24 ;72=' '5=9' ?48; ':45?=' (55= ('178!' B C

4' (2'6'''?' (?' ' 4 5(;3" <(;'2'= 41' 49@2';('=541' ?44884 ' (4 ;72=' '8 =' (?G759'178' 4 '=?75" 7''(''(1' (55= 71' ZM !) 8 '78' 4 '=?" 7878' @ ^84 ''5' '5' 4145?(5?'8' ;3 =5';'8' 67" (:' = :4

B C' s7=?' 8" ?4' L;2=' 75(" ;(G''8 '8' (55" (' 5(=' 3 '8 =' 6=848 '=' 8' !) =' ('5=' (??(7 ' ' 71' ?' '?(7 ' 715(' 75'74 =' M!' s7= '458' '5?';(:' ' 5514 51' L;2= 51' !55(15' (' 5(=' 3 '8 = ' 4 ' 48'?771' '5?';(:' ' (5571' L;2U;7 45 '8!' " 5'3'2' 482?7" 1(54' (5758' 4 '' L; '72 '178' 8' 4' M!

(?41' 423=?=' 5?'; '=5'8' .=1(5^' (5571' '5 45'48' 8" (' ?(=' 67= '8' 3 '8 " (55=' 87: (3(8' (55=8' , ' B'5;4@''45'1' ; '=?78' '8 (' (:' (55=' ,C' 4' 48'?7=8' (55=8' ?' '?(8' 5714 =' -!' 71' 67" 41(545' 5714 " '5?';(:75' (5571' '5?'; '=5'8' ;7 45 '8' 4=' (55=' 3 '8 '' 8" 5'3'2' 41(54' (5558' 4 '' 5?'; '=5'8' 72 '178' B'?' 48' -!C

'1'2' 7' ;71' (55?U' (' ('8' G''9 (' %72 (41' 1 (1' <74 '' L; ' =2('8' 9' 8" 5714 " '(??(5 7' (55=' ;7' '8' '8 ^' '8 '58' 4' 8711(1' ?' '?(8' (55'8' , ' s7= '458' ?(:' ' 5 1411' L;2= 51' =228' (' 5(=' 3 '8 = ' 4 ' .48'?771' '5?';(:' '(5571' L;2" ;7 45 '8' 8" 5'3'2' 41(54' (5578' 4 '' 7 45 '8' L; '7 '158

J E# ' J#<#F `# X##F# ###)8 # E#G -J# F+' 'PZ Z TUF)' F-' J #-' <+-8E# F-' -# # ' 2# ' #) -')W+# 2E# # 'W#]I#)'B) ' 8 2¢< --# @ ' J < -F# F #S-' ! JS##G #8' 7F-' T -' + #UZ 3 1#3' 8' EUJ c #ZZ' , 8 <8' L AC' 8' .Y' # ' -8' F2 #O)g #U-' 8' $8+# E Z' 811#J c#ZZ' 64LCL4 ^)' 8) 8' k T2 -' 8' H+ #J +F ' -F<<F0 S) 8-'c 82 gE ' ' ^4

:F# ' 8 8' J E# ' 8-' DZ < # ' F # 8 1 -' ' F #12' ' ' #-' <+# F ' 8E# 'o#`$ - 8GW 8)7' 8 E ! # 8 'E8 ' F E# SF' H##- F-' F-' 8- Zx T##.' SF1E8 # 8 ¢ # '#-1 ' # 8?8+F# +' X I +##-' 8 < +F ' #-' J 22 #-' # 8# -8)') ' F# ' 88J8 # +# # !' R +' 8 #W# +88UZ#I#8+' ! ZZ ' A ## F ' H+#-# C' # ' E8- #0)M' 982' #)' 18+'2' W '# '<12 'SF E+ 84)' #--8X #28' J2# 2 2#-' J+2# ' M' #F E# .2YC I044]W ' I8+ ' -# FcF' C' E8E 8# F-' ^ 'K '+8 8' FF-' F E#

E' EF 8 '+ +'# 'I8 8+# o-' + #8#-' 1 '] 18- #-' #)'# I#J8 'J -<#+ # F-' 8+F# < 8- ' GF' 8-' 8 P' #F +' <-)' E#- +S) # '# ' # #)' +FEZ' F22#-' # J#<#8 # F-' ' ;8+ ' 8 <+8' 1# ' #E-' ' 2j- 8Z' F' 1 #<c E8-' 2##-' ' 8 -8' J # 8' --S # J d' ;8+ #)' '<+# F! # T+' 1 JH !88+F ' 2##-' ' 8 -8' ; A' #'8' -8SF# J #' #2 2#' 'AEF-? #)'8'#F #3EZ# Dc)+W ' 2##-' '9 28 E#-' F +##- -#JF' E#J # F8-' 9 F11#+ #E-')'9 !8< 'F' E#8 c 8Z' "+ 8JZ

--' E#-8+8< #-8' G +cF #8 #1F-# F!# 'SF ' F2# '$8+# EF-' +8- 2I# ' # 'J' 8F# ' + -' ##'8' F '# '< #E8)' c #2# 8+' # 'SF I#- '$8+# E#'8 < 8 +' SF# 8-' -#+ F2 'FF#;Y 2# ')'$8+# E# ' < --F ' # I8 #+#' 1+# <' $J<E+' !)1 2 '< # #E81' ' 8' ' E#8 # #-' SF# J + J 8+8-' F2` 2# ' c -' $8+# E# 'J I8 #F ^' 1ET Sd8' SF#+81 ' 2#S ' 8 #--8 FE# 'SF I#-' '$8+# E# #-#F-7)' - # '# #+# k#'SF ' ' +#- S' I82' 8' +#- F '8I8 8+# ' -S 8' F22 'F2 8+# +8' # I8- #O)I 8 600$+#2] - YN # :)',s X '-8+F ' 0738#N 8s X7' F k' #c' 8' -8' E#J # #-' #I)+--E# o-' 8- ' SF# H f' +8-' 8-' F #'E ' 1#F-' $8+# E# 2F2# --' 'J I8 #F '<+ # 8+' S # ' ';) 'B' W !B_2B' < F '<U1J-' <18#E#+#E -')2 -' #<- -' L'AC' 8' .' # 8 #-' +8-#EF8-

'# S 8' 8 H E ' ,#S '#1^ #G\+ 8H ' ET)+ I # kF F+' 1 J#28' < 8+F ' 8+JF
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z'0 4G (55w'"'<4 ' "';=41('U'<4' 4 U'wx**<;*''I R4@'!'*

B' 99' ' C

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L;2! ! ' !' ! L;2' ! #!' ! ;'J (2! L1@ 5?';

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'Y & 9' - Z Z Y , ' - ' 7;722'5 ' (4 (!' Z!
'' J % 8 Z 'Y
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'] 9 '' , Z M -
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'Y' 9'9 Z , ''' ,
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; 9' ''' Z - <2 - FJF22# ' ' 8 ' A_ ' JJ#-F- ' , Y
9'' '' ' , Z '''
9''' % Z Z ' Z
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% '' ! Z M '' M
Z 9 ' ''' Z Z, '2 F
' 9 '' '' '9 Z, '
9 Y'' ! Z, , MZ ,
' 9'9 9' Z, /
& 9'' - Z, '2 F
n 99' 9' ' Z, - '
^g 99'' 9' ' J Z, M
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- r 9' 9 ' Z, '''
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, Z 'Y' '9 Z '7 '2(78' 1 '8878' =;7 (= ' '5' 7?(4(1!
, '9' & - Z '
, M 9' Z Z , , '' , ,
9' 9'' Z
, W] 91 , Z ''' 3 '8 78' ; 7;'''978' , ' (2''' <4 '(' '!
9''' 9' Z - '
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Z 9 'Y 9'9 Z- , ':4 '78' 1= ' 7 !
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. ' O . ' ' 2] . O !

! ' ! L=2!' ! + ' L ; w' ! # ' ! 4 ' 52! I 5'@ 12';2R

M '' - Z - , O'
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99'' ' Z - , - 2 FE#F-' 1 @4 ('' @=8 ' (2' 72'' 1 !'
, 99'''] % Z - - '' - # ' 8X' 2 =5'(4 ' ('''' !' 92!
99' ' Z - '2'
% O Z - Z '
- 99 ' '2' 4 Z - ,
99 '' '9 Z Z - M
Z 99 5' Z ''' - +##
'] 9' Z ' ' M - ' . 73 ' ; (278' . 49' O' : ; 5'' J!' (5!
M '' 9''' Z , , Z! Z
- '22 9'7 - Z '' ?
- ' 9' ' Z ''' M
- , % % Z Z - '
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- '' 9 '' Z Z '' 8+ ' #<8+ ' < - ' 2 FE#F
- - '2' 9 'Y Z '''
- '9 9'9 - Z M '
- Z ' Z ZZ , M -
- ' ZZ R'
- 9''] '2' ZZ , 8''
90' R ZZ '
9' % - ZZ 74 =5'78' (72'578' ' (5''=8' ''';' !
, % ' ' ZZ - R' -
9 ' '' Z ZZ '2' '
%22] '2' ZZZ ' Z '1 (' 4 84;7 '=!
- 9 1 '9 ZZ ?
' ' 9'9 ZZM R' M
Z 9R - Z R2'
'? 99' 9R' ' Z R 4 =' 84'@87 1' = ; ; '?'2!'
M 99'' 9''' Z , %48@(8'(''78' '1 @4 ('!'
Z 99'''] 9' Z '' 41@'71' O'4 =8=2!' ''' ; ;5871!
Z 99' % Z '''
9 ; 9L 9 ' Z - ' -
Z 99 ' 9 '' ' Z ,
Z 99 '' 9 'O Z Z Z R'
Z - 99 '5 '+ 9'9 Z ''' 2 --F-' 4 4; 78' '5' '(' (; (!
Z $] ' Z M '
ZZ '' '' ZM , - 8X' O' : 4 5'84' = ; ; '878!' 5 ; 4 '75''!!
Z ''' ''' - ZM ' ' ; =2(' ' (''''' (1' 1'8878!
ZM ' ' X ZM , (' Z ' 78' 1 @4 ('' @=8 ' %48@(8 (1''5!
% % Z ZM ' ? B' R ; =2(' 8@('''1' '5 4 '] 2= (1' 4' =?=&'
' '(1' (48m2''8' B' 1 (' (55=' 49@ ; ?!' ! 2'=!'
'] ' ZM , - M =1 ' '(''78' 1 @4 ('!
<' ' ; =2(' @(48' ' (55'(0' 2'34 5'(1' @ =&'
, '' '' ZM - '+'' b' @'58' (8@' ; '45 48 ' '57''' '='''378' <' 1 ('!'
' # ' . 49' O' : 4 5'(0' ('1'8' 9>'!'
'2' '2' ZM 5' 2(88'8' . =1 (5(' ; ' ; 71 5(' (' ' (''5'(''' !'
'9 R9 - ZMZ ' ' ; =2('] (2 (; 37 1' '5 ; '2 ' (55=' Z1'I!
- Z ZM ,
? ' 9' 9' ZMM

& !ˢ ˢ >ˢ "

7!ˢ !	L; !ˢ !	' !ˢ !	L;2!ˢ !	#2!ˢ !	4 !ˢ	(2!	2L1@	5?';*	
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	'''	&	9''	-		M	''		
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	%		9'	Z		,	'		!ˢ 5(78ˢ (L !) . ˢ '5ˢ .49ˢ 2 =&ˢ
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,	%	&	%				/%		67'2(ˢ ,?78ˢ 5 4 @ 4 48!
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,	''	" /	9'9			-	'	-	
	'''	&	''	-			' ''		
-	'		'5	'		Z	R2'	,	(;78ˢ <-ˢ 0'4 =8=2!ˢ @ '178ˢ 4ˢ]45 !

12& !ˢ #8#ˢ >ˢ b %

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? 4G 5 ?H l ' ˢ# ;ˢ J!ˢ # ! ;ˢ ;ˢ &K!ˢ.
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j ˢ 8 !Aˢ AA
/ˢ@ B! ;ˢ K Kˢ RKˢ&!1&ˢ @ ˢ !ˢ% ; >
=< Q 5 ˢ 6 5 ? ˢ & ;ˢ: # ! ;ˢ &ˢS ˢ 2& ˢ
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B! < ? +
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7 BX B ? 5
B 5 ˢ B Jˢ Y V *ˢ. V ? ?
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ˢ . 49ˢ 0':4 5`Aˢ =;;'878!ˢ . ˢ
] '9 , Z ' ˢ <'2'58ˢ 4G''8ˢ X 5d !
<ˢ 5 =5'578ˢ !ˢ5'= '2'' !ˢ '' ;2'''8ˢ 1@; 7ˢ
J M V C [Z , - +ˢ ˢ4_5ˢ !ˢ%4 =!
, :ˢ 9' - Z- : 4 84;7 =ˢ (!
' ˢ 7 ˢ <G Z Z 78 '@''8ˢ (L !
` 9'Y Z V ZZ ' ˢ . , N
- ']ˢ . 9' , Z ,
'2 ˢ <4. ZM '2
Z '2' :ˢ 9 ' >ˢ ''' - =2L;(@78ˢ4ˢ '=5'78ˢ (L 48!
=< 7 9%'ˢ . - `
M 9 ``` Z , , Z Z !ˢ%4 p8ˢ=:p' !
Z 9' ˢ 9'9 [[%% ?
Z 9''] , M
Z*, <\2 N G' -ˢ+ '
Z 9' ''' - , ˢ 5';4 8ˢ (@(ˢ (L !
<ˢ-ˢ = '5;'(0ˢ 0':; 5'Aˢ 8' ;ˢ ;5 (;:'(ˢ
Z <4 ' Z 5 , ˢ 48 ' 7p(!
Z- 9 ' 4 :ˢZ L
Z 9 '' ˢ ? L''ˢ V r M]4
N ZZ 9 'Y ˢ 7 M , M -
Z 9'9 M ''' M ˢ 7 ˢ N !ˢ ;5A78ˢ <(; 78ˢ |@!ˢ '' ?''5!
ZM << '9 $ M, 8 ! =5 (5''ˢ '5' '(!ˢ W2 1 @!
! 9' ˢ+ˢ N M ' !ˢ 7 42'78ˢ '' =5'1'8ˢ =:' ˢ =51'=?78

99 5' . 0 . <] . 0 !

5 L; ! ! ' ! ! L;2 ! #2 ! 4 ! V2! 2L 1 @ 25'<2' !

99'' 9' M , 34=?=''=5 5 4 @ 48 '78!
, 99'''] 9'' , M- Y -
99' 9`5 M 'Y < 2@'78 (;42278 '5 ' (55'(!
% 9' MZ ' Z
- 99 ' J % M ,
99 '' 9 ' Z MM Y M
Z 99 f' 9 '' M ''' @ A2'= 7 1 =; ;'878!
'] 9 ''' , M '
M '' 9'9 * M , , , 414 '78 249(5? 'A @! 9' (55'8 92'''!
M ''' ' - M ''
M ' J '2] M '''
M, % ''' r Z M ' - ='5 5=? '8 : ; ; '878!
M '] % , M , 4 2'5(9 '?'78 4 4 78!
M '' % M Z ''
M- ``2 + ' M '''
M '9 '' - M M '
MZ '2' Z M
M 9' j `9 M , '' -
MM 9''] , M , ''' Z
, œ 9' M '
, 9' 9'' ? M , M < ' (55= 51 '5(; ;488(. =1 (5'8 2=; (
3 '8 = 87 : ?' (!) 4 722'(5!
, , % J 9'Y M - '' 4 84;7 '= %!
, 9 ' 9' Z M '''
, 9 ''] % M Z ' ;
, - 9 ''' 9 ' M
, 9'9 9 '' M M ''
, Z 9 ''' - M, ''' - 4 4 78 ' (55'('5 45' !
, 99' 9'9 M, '
, M 99'' Z M, , , Z 4 45 1 7 1 8 '5 ' (55'(!
, 99' '] '' , M, ''
, 99' ''' M, ''' 4 4 78 = : '' := (; '! '2'78 5 =5'578
'1 @4 ('!4! ((; (22(!
, , % ' M, - ' - 842'71 $# '5 0' : 4 5'(!
, 99 ' J ' Z M,
, 99 '' '' M, Z '' Z
, - 99 ''' '2' M, '''
, $] , M, M ' M
, Z '' '9 M , M ' < 5 =5'578 =; ; '878! (; '578 ''5@4 (!
; '@ _ ! 4?! ! 4@4 ('5 4 ';3=!
, ''' - M '' (42'71 + # * 0' : 4 5'(! (; '578
, M ' J 9' M , ''' ! =; ; '878! 24 (: (2 1 @4 ('!
, , % 9'' Z M '
, , r ! %] 9'Y , M , -
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, , '2' % M '''
, , '9 9 ' - M Z ' , : (578 (@(@=8 (22'8 7 1 !
, , - 9 '' Z M , -
, , 9' 9 ''' M M ''
, , Z 9''] 9'9 , M ''' -

. ˢ O . ˢ ˢ R . O

ˢ L;2! ! '! ! L;2! ! #2! ! 4 ˢ 5?! 2L1@ 5?';

, , U''' M % ' p 4548ˢ 48 : L 4 ˢ = ?'5(''8!
, , M 9' '' - M , , - , Z
, % 'Y M ?
, 9 ' ' Z M ''' M Í !ˢ < ' ; (578ˢ = 7' !ˢ ' '548ˢ O 49(@2(ˢ 4 ˢ ; (@2(ˢ 8; '@8' !
, , %] % M - '
, 9 po ' M , -
, 9'9 ' Z '2
/ˢ . ˢ 49ˢ 22=5'A ,Z ˢ ('5''8ˢ 9!ˢ 249&ˢ
, - & ''' - M ''' b (5?4 ˢ = ; ; '8(8!ˢ (9''''578ˢ 1 @!ˢ 99 '!ˢ
ˢ e 84; 7 '=ˢ '!
, 99' '9 ' M M '
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, Z 99'' M- , - - ˢ 4578ˢ 1 (9' 1 (8ˢ 1 @!ˢ 99 ''
, 99''' " 9' M Y 5=ˢ 1 @!ˢ = ; ; '8'!ˢ] = ?'(5(8ˢ 2 1 @!ˢ 99 ''!
, M 99' 9'' M- , '''
, % 9'ff M- '
, 99 ' 9' ' M- , - -
, , % % Z M- - 5 -
, U%2' 9 ' M- ''' '
, " / 9 '' M-Z ' Z] = ?'(5(8ˢ = ; !ˢ 3'2'@@(8ˢ 5'CC ˢ 99'9!
, - '' %a 2 - , - ?
, t 9'9 - M-M M
, Z ' J $ ' M R2'
8!ˢ L@ '(5ˢ (2'('''!ˢ 4 ˢ !ˢ '=5L8'78ˢ
, %ˢ '' Z M ' 249(5? ''4ˢ @ˢ ; 4(5 7 !
, M ' " 'Y M , , -Z 3'2'@@(8ˢ =4!ˢ 4; '=8ˢ 1 @!ˢ 999!ˢ
, - '' ' M o 4 84; 7 '=ˢ ''!
ˢ 4; 'ˢ = ; !ˢ] *(78&O=8 '2'78ˢ 4 ˢ %=2(8'(578ˢ
, - '2' % M 'Y Xˢ 1 @!ˢ 999'!ˢ (42'7 1 E 55(ˢ ! !ˢ ,!UC
, - , '9 & ' ' M - ' -
, '2 Z M , - = 542'78ˢ (@(ˢ (L !
, - 9' ; M Z p 4548ˢ 1 = ' 7 !
, - - 9''] '9 M
, - 9`7 / M M '
, -Z 9' 9' - MZ , M - 4 4; 72'=ˢ '''!ˢ 4@3(578ˢ (CC(ˢ (L !ˢ
, % J 9'' ' MZ ' !ˢ L@ '(578ˢ (L !
, - 9 ' 9Y' Z MZ , 'Y Z '9 78ˢ (@(ˢ (L !
<ˢ %(24 '(5=ˢ ; (@ =ˢ (ˢ (G'= 4 ˢ] (22'4 1 '8ˢ 8=278ˢ
, % " 9' MZ ' ? jˢ % O # ˢ . 49ˢ O' : !ˢ 1 = ' 7 !
, 9 ''' /ˢ O % MZ , M
, , U 9'9 9 ' MZ-
, 9 '' - MZ fY = @3L '58ˢ . ='5(1ˢ 45' !
, 99' 9 'Y ' MZZ '
, - 99'' 9'9 MZ ,] 4 !ˢ 3(7 1 (7 78ˢ = : '' !
,] ' MZM '' OL 1 458478ˢ O'4 =8=2L 1 (ˢ @Uˢ ; 4(7 !
, Z 89' / M -
, % ''' M %] (< '4578ˢ = ; ; '878!ˢ 2(7?'78ˢ 1 @!ˢ 9 8'''!
, M 99 ' J ' ' M , , ,
,Z 99 '' % Z M '2 2(7?'78ˢ = : ' !ˢ 7 42'(778ˢ 1 @!ˢ 999' !
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. ˢ 0 . ˢ ˢ] . 0 !

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, Z	''	ˢ	'''		M	,	'	<ˢ 7 4Y('7'8ˢ ; (@'(ˢ 45= : '(ˢ =5 '''71ˢ
, Z	/		'9	-	M Z	' K	Z	jˢ ('8 71ˢ 4G78ˢ =; ; '?ˢ G7 : 4 !
, Z -	'	J		/	M	Y'		. e8 ˢ ?4 ; =22(78!
								<ˢ 7 42'(578ˢ =;!ˢ (; ' 78ˢ 1 @!ˢ 999 !ˢ 42'9ˢ
								^ˢ (@(ˢ (L !
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, ZZ	%/	]	9''		MM	,		= : 'ˢ (71'8ˢ , ?78!
, Z	''		97'		MM	''		
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,	'9		%	-	MM	'		
,			9 'ˢ	Z	MM	, -		
, ,	9'		9 ''		MM -	5	-	
,	9''	B'	ˢ 9 '''		MM	Y'		ˢ] (7 (571ˢ (42'71ˢ '5ˢ 67=ˢ - #ˢ 4ˢ #@
,	9'Y		9'9		MMZ	'		& $# ˢ = ; ; 7 : 74 4!) U '=?48'(5ˢ (51'8ˢ
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, W	%	J	7	'	MMM	7		
, Z	9 '		'''	Z	-	/	-	
,	9 ''	]	'		-	'	'	
, M	9 ' '		%		- ,	, Z	Z	ˢ '; =8ˢ @ '178ˢ '5; 1= (ˢ 75'4''''8ˢ '5ˢ
, M	9'9		'		-	''	?	jˢ (54 L '; =ˢ (?ˢ =58 (5 !
, M			''	-	-	'5	M	
, M ,	99'		'7	' !	- -	'		
,	99''		'9		-	,		
, M	99'7	]			- Z	''	,	
, M -	99'		9'		-	'''		
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, MZ	99 '	J		'	-	, M	-	
, M	99 ''		9'	Z	-	''		
, MM	99 '''	*	%		- ,	'''	,	
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' , !) ' 4 5(4:78' 49' 784:'=' 4 ' (2''8 ' : (4;' ;=5G';' ' '5' (557 1' @ =9' 1 4' @ (8;4?45 4 1' 4 5=' ' #4 '8'
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5 ' - 8 #- ' B8' 4' # $ @ #- ' '!' 4!' (@=& 7@4 C' @=5' 7 ' @ @' (;3^' 87; ;488= 4' '5' =?';4' 4 '& 4'
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N^ra' =5845 ' ' '5' (55=' 75?" ' . 4?(' ?4' 849' A (' @!' - ' ' 416=4' '5' (''5'8' 4 4 '8' K' *E' =2<5'!'*&
=5'1 '85; ;488'=548' (:' '5' '=' 78654' (?' 849 7 ' '5;258' @' 5714 ('178'87@ (' '5' 5= (' B C) ' 9 = &55'5@5' I2''2=&
*' 14 = ' '87; ;488' ' %1 ' 4 4 48' ,?''!8!' < (; ' 2''2=14 = '8 ' 67" ;71' < (2 4' @ '1''5" ' ' ; ' B ;'5'2'& 852''8'
nX' 7' 4 5(' ' 78674' (?' (55!' (5 4' !' ' 67=' =:'' !' ' 4 ((;218' 4; 4' 5= d ' 4 ' 2'''5;' (@@;22(''1' <5'F&'*
T ' '?' 45''5' @(4 ' 49' =84@m=' ;=5 (!' @'=5 ' ! ' ; ' 49' (:=54 ' ! Z!' 7; ;488' ' 4" <''I'78' M ' '6''" 2''' '
=241 A= 7'7' " ' (:' (55=' (5 4' !']!' 0'4' (' 1 (4' 24=@((' @72878' (55=' @4 5" Z' (5 4' !' 2 ' '5' B G' @5'5"
8y;4!88' ':'6''4' 4 5(' !) " 87; ;488' ' '5' q L@ =' (wT(8N' 249(5?4 ' I (; ' 4G78 ' 67" 4 5(' ' (55'8' 9 ' 5&6''4' 12'
(5571' (5 4' !' M ' 67= ' 1 (4' (:' =' '5 4 <4; (' @72878' 48 ' 4 '=; ;'878' (' ;' ':78!) 75;' (255'78' (' L@'=' 4 ='
;(78 ' 4 571' q' L@ " ' 4 51' 457' ' (5'''8' ' 78674' (?' (5571' (5 4' !' ! ') 2'4' ;(4 4''8' '?4' ' *&' ' 4' T!'
1 := ' =2; 1 A' '84@ '57'84 ' =;'(78 ' 2'L8;@5'8' = 5=1'54' 5= (5 7 ' (' (:=5; ' =84@3= ' *2''@2'(5'= ' 4 ' (2''& '
67" =h ": ' '!'4!' z ' (5'1 ' @(' 4 ' # ' (@@422(5 ' 7 ' 87@ (' (' ' ; 5(;2'=!' . 4?(' '1@'' ' ?4' (2'5' ='
K' =241 ' 78' 2'L8;=5 ' 67'4 ' #' (55'8' 9 ''!Q' 9 (5 ' 4 571 1 " '5' 67':''8' 4(?41' ;7 ''='5'''(' !84 (5 '' ' '' "
5= (5 ' 0 (?'''5''8 ' 4 (' '8 ' = '8'59U'4 ' 884 !
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78 '5!' ! M!
B ZC' =5845 ' ' '5' (?w!' =?49' ' 4"o(;3" '(34 4(578' '5' L !' @!' !
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2458 ' 67'(' '567') K' ?=' ' ' $ ' # ? #
B MC' q (75?(5(' Z ' @=5' 7 ' 3'4' (' ' 4 5(4''= ' G59 (' 5514 ('=5; 1' 784:'" 4 ' ;?'4 ' 49' K' $# '
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''45'@;' ?4' M # ' ;7G78' 84;75?71' '5' '''1' 4<4 7 ' (?' (5571' (5 4' !' M' 7 ' 87@ (' 5= !' -!
' ?4<554 =' (2'7 = ' (55=' (5 4' !' , ' =:8;7 " 875 & =241 A= 51' (55'!' ' 4 5(;3''8' =24'1415' '1 'G8'1 ''
@=5' ' (37 " 87; ;488= 41' ('1 '8999T' ! '1'2' 4 ' (:= ' 584:'78 ' 4?(!' '=5L8'78' '8' 5=5' (2'78' 48 ' 65!''5'
5'4248 ' (5 4' 674 5'?7=' (2''" . 4 48' 4 5(4 55 ' 75?4' ; =5= (@3'8 ' 5=5' 14?'=; '8' ; 1@=7'1' 2!?';8!' >= '5 4'
(72=' (1 ' '=' '5' =1 1 4''D!*(?' @ '1 (1' ('(1 ' 4 ' @=8 4(' 2?=' '5' '(':(' ?4' =2; 1 ('8 ' 75?4' 84'@'' ''

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C@'5P;3 P3' . ' 2C ';4'82' ' # - ' ' = ' ' ' G'';2' ' ' 3' D9=' : " := 2 ' 2'45' @=G" @!' =' ; ' 2 :@ ':.:' 2='. @4;:' ' ?' '@' 1=@!

/# JH E##-' 1#2#F-' J8E#' +8G ' # ' # ' #-' X## ' +#G# ' 8G8-' F0' G8 #8 -#F ' E # I8+F ' -F<+ ' # 8+0' # #Y' ' 8 < +8' + E##' I 2#-' F-SF8' E' H#+#F ' G F

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#!' =54:7:7@' W 2 42' 14' C@7';:' # - ' 5' 1 1' '

' -8SF8 8' J +F-' 2IF-' 1#2#F-' / F H# ' +8G +8' # Jw<# ' # ' # ' #-' X## ' ,A Y

' =2418451' <'''884' 5=5' '=5L8'71' 84?' 249(5? 1' 249(5? " 2 '71' (37 " < (41' (' 722(' ; 4(5'5' (55=' (5 4' !' ' 67" ?'48' 4 5('H' 9'9' 5=5' (1@ 78!
5?4;'178' <7' ' 249(5?4 ' 87@4 '= '8' < (4 ' 7 ' '5' = " =2= =!' =!' 999'9 ' 67" 4=?41' (55=' (5 4' !' ' 4 5(4' ;(4@' ' 4 ' 4 5('H' (55'8' ' (5 ' 78674' (?' Z1!' '5;3=(51!' :'' ' (5 4' !' ' 67=' (55=' 87;;488'H'
D ' =2418478' ' ' B(2'(8' ! a' 5= 2'78' 5=5' (37 " <'2'78' 7 ' (@@(4H ' 84?' '58' ' '78' 67" ;=58;'''8' 48 (145 " 67=?' 249(5?4 ' (@5?' L '=8' ;=5?'?4 (' B :" 1= '458' =@7271' .=1(551' 3(4 4?41' 42'67' 'B7 ' '5' ';4 =5'8' @ =' 4 4' ('(C' 585 @(71' 4 571 ' .=1(5= 71' (1';' '(' 74 " ?48'?4 (58' 4 ' '?4=' ':7 (' '11(5'(' (' 87'8' 49' 458' 4 5=' @728=8' 48 ' (5 =' 4 5" 87" =; (=' (5 4' !' -Z!' 67=' .=1(1' @4 '' !)' '455R=' @=8 4(' =1@4" G7887 ' ( ] (:'5'=' 48 ' 7 78' (55=' 5 4' !' - - ' .4;4@4 (=' 4 5=' 67= 1458':58' 294 ' ' '5;4 71' 48 !' *
' # ' 4 5('H' =24'5(478' ;= 5=1'54' @(' 4 ' 8' 724 4' <'2'78' 8' 4' t ' ' ,?58' ;51' 8= = 4' 24=@((' N 67' ' 8= = 4' @728(' 8=278' @=8 4(!' 4 5(' !' O';' =1@4'71' =;;R?' ' N 4 ' ;51' 48(' ' '5' !<<' L@ =1' @ =<4; = ' :42271' '5 72'884 ' '5' ;=5<2'; 5' '@8=' @4 '' ' '5' '2=' (55=' (5 4' b !' Z!' 2 '1(' % # ' @=8 ' < ('8' =:' 7'5' 8=2(' 4 5(' '(55'8' 9 ''!' 4 '' ' (55=' (5 4' !' !
(654' .4 48' ' L@ " <54 4' 5714 =' '4=?41' 5 4 (22=' 67=' .4 48' 2 =5'^' < '4 4' !' %'?4' 87@ (' 5= (8' ' 4 ' - ' 4 ' '5< (' (5571' !' Z!' $ # '45'1' .49' 2 =5 4' 9' ' 4 5(' ' (:' (55=' (5 4' !' !
B, C' =241 178' ' ;71' 8= = 4' 24=@((' @ '151 ' 1=9' 4(' 49@728(' 8=278' 4 5(' ' (:' (55=' (5 4' !' ' ' 4 5(;378' 784:'''1' 4 ' 4?(1' 8467' 7 ' 67" (55=8' 999' 4" ': 55 !
B, C' ='249' 7:2'5' 67(1 '8' 49' @?';4' =?24'(5=' ' ?48; '@ 78' 3(:4 ' 145?=8'88'14' @ =' A' ' ** (55'8' 99''!' =?49' =?2!' - , ' 3(:4 ' ' (1' '!' =5845 'H' (7 41' 71' =?'4'(5=' .('!' ' 2(:4 4(558' '5' I L '(' @(' !) ' '5 (' .4 48' (45R478'71' 67" ?=1'5(4 75 ' 78674' (?' (3' '71' (571 ' 5=5' 87;;48S 8' 4' .4 48' = '78' (45'^' <74 4 ' 84?' .4 =2' ' 67" " 4 ' (1'8' 8':" @= 45 R(1' (?' 41@=8' 787 @(4 75 ' [

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>52' I

99' 92' e ' 'K ' ' E 'T " 'K f ' '
' E ' # " ' ' "' ; @ ' ' ? ' '; f ' # ' E '
' " ' ' !' K ' E +' ' , ' ' '
; ' E ' ' ' ' & ' ' ' Z , ' ' '
; @ ' " !' & ? 'K ' T ' " ' ' 4 , ' ' ,y'2
% ' e' ? ' ' +!' + ' !' , ' " ' '
'K ' ' ^ ' ? ' ' ' " "' g h !' % '
A ' '# ' ; Z '; ' ' , !' . ' . ' . ' .
9999999999' 4 'K ' # ' ' , !
9999' / ' ' ' , !' ,A Y' / ' ' ' G'
' !' U # ' ' ' # ' ? ' ' ' , ' ' '
' ' !' K^ ' + ' # ' ' ' ' !' ,ABY
K ' ' / ' ' /H ' ' ' !'

B. ' O . q [;3) . ' $q' !' =@ %#U !C

1#y#1 D)J D:J 2 #-H -2#{' # ' D)' + JF-' 1#2#F-' G #G#')G## ' # ' O' &
#9) ' !' !' 999999999' #' #-' X I ##' ,A.Y' ' +8G #' 8U##-'
' JD)JH D)J #D)< #F)' 2' 18D)' 2DD' 8# D)#s' ' $+ 82#F ' # G8 -' G8- ' 8- ' ' F2# '
Ye U#< ###<' 1;2D)#. 8' <2F#)H 9' 8- +8' < + ' $ <8#F ' G F ' # '
',AKY' D)' }- #<J' hFD)J' h8.2#D)K #' < ' H8-- 2# U' $ <8#F-' ##G#' # '
D)' 5 ' D) |' 2?8 G < F ' &F JHF-' 2F F-' &8G#F###'
F J' +8G I#' # ' # 8+ #

9999999' / '5 ' '5 ' !' 8 '? ? ' '
' !' U # ' / ' ' !

B, ,C' =1@4'78' O'4 =8L2L1(1' =;;''@(I ' ' K' 2'1@'(?4' /M' '! :' ' + # ' ' # ' **' (5 4'
! ' 67(5?=' 5?(4=8' . P1(5= 51' %4; ' (2=8' <4;R ' 4 '@728=' R8 =:72=' OL ;(5=' =5 '<';(''1' 4'2?2?' !
B, C' ('=541' 3(:7' ' @ =' 49 =' .=842=' 14 '7=' (55=' (5 4 ! ' 7 ' '5' 2'2=']42'2=' 9 ' ,Z!) 2C'' 4>' '
45(58' (55=' (5 4' !' - ' 45' 45 4' 2=?'=' 5722(' ?4' 4' (4 4' 5'8'' ';4 =' (:' 49'2'=' ; 5;(4 '' !' ('1' '7'
3(:7' ' @ ='] (:'5'=' (5#I' (5 4' !' - ' @ =' %2'2=54I' (55=' - , ' ;;'8=8' 48 ' (55=' (5 4' !' !
B, C' (''8'48 ' (55=' (5 4' !' Z ' =:'' ' 55?58'' (55=' (5 (' !' M!' %'?4' 5 ='''' 1 : = '' '= 45 '5'' @4'('
%' '2'' ' 49' =?!' 4?';4=' (7 45 '(5=' .=5'(4' <=2!' Z ' 7:'' ?4' %' (' %' '2'' ' @(!' 9 ' ' t ;!
B, -C' 2(34' 4(5''8' ' 4 5(;3'' =?49' ;=5L45' ' '5' (55'8' 9 '' ' ;(5'' =?!' ' =?2;'(5=' 7 ' '5' L '(' @'7' !'
=?24'(578' . ('!' =!' - , ' 2'(:4 ' (55=8' 9 ''!
B, C' %4 :(' =1@4'78' <5 ' ' 48 ' 575 5 ' 49' =?';4' - , ' 73'' @=8 ' K' G L@ ''1Q' 28G ' K' ' '''@'4 '7 ' 2' ''&!' !'''' 5'
A' 1=9 ' G5887' =241(4'' (?=248;45 '8' '5' ('(1' (48('8' %'; = '8' =;;'8=8' 48 !Q
?' 2'

!
5 7
!

B . # q ! G%2=; 2 ' !C

B_ ! ' ! # <JJJ XX I 9 2 2 JHJ #8 , 2F<JHF#9) 2# # D) D)# D) #
! ,A_Y / ##< ,# 8 ! + +Y K # # i ! ,ACY
9 2 5 # ? ! ! "
, Y # ; ! / " "
1- /Z# Z m # * " ! ' / ! h 0<2 #E# .) ,# 8 < # -8
8G# W "+wJ +F Y

B.] . . s . s
q !

BB 9 2 % # / ; ! / #
, & ? / " " ? K
/ !

B.] 0 . q =;22 22 . q 4=;3 . ! '@4!C

=;3 'U ,2'@;bU'5 < $ # Z
! u;<'bU' 1 ! BU'@4 @! bU5 'U'5 1
9
! =;3# ,2'D ' 5 =;! 4@4 = I' 2'5'2'#22
@;3#54'1 ;# F @@4'5#'5P ! *@4@;372 :@4
' '#G':3 8 @U =; '#' 2" *U4:24#;3 @! C':!
B C

JH E#F- #+8 +8X 1F# c 8+ # 80
#F- @ -8SF8 -8 JH E#F- 1#2#F-
& +## +8G +8 # J 8<# # + # #-
+# F-@ < - 8 -8JF E JH E#F- ?
#+8 JJ#-F- 8- ! #G 2# $ J#1#J +8
+8G# 8 / +8 # 8 I 82 UFX 2# -
/ 8+J 2#F- +8G#8 -#- JJ#E# 8F @ 8G0
I# E8# E8 JH E#F- 8- F- 8X
8+ # 8 #F- #- X##

B,ZC =5 45'75 '5 (55'8 ''' u?';48 @ 84?'; " =1548 ' 41654 '5 (55= 175?" o! !99 !
B, C (784 '''8 4 49 4= 4?('?4 849 (4 (! 4 4; 4 K (55'8 (' '!Q
B,MC =;78 45 =858! 24=@((4 5('H @ '17 ((1'=8 48 ;51 < (4 =241 4= '=5L8'=N @728(?4'5?4
41@= 4 67= u1@42(8 4 3("8(2';(@7 5(<5 ' '5 U L@ 75 B @@'(5 ! , '=! ! ,C 541@4 (55= ! ! Z
@=8 :'4=5'(1 < (4 '5 249(5? '5= @ 842'= =;;'8= 48 ' 7p((! 848(4 (55= ! ! Z 4 5(' (55=8 9 '''
78654 (? =;45@((1 249(5? '(((: 5 78 = (55= , , (: =:' = 4 41(4" 72y?'!
.4?((? (5571 175?" 67= ; '(;71 @ 842'71 48 51 48 '567' 0 (*; 4578 67" =;(:(5 7 M - '5
& L@ = 4 5(451 (55'8 ;;!9; !Q %'?4 85@ (5= (8 ! M!
55"] 84;= 71 4; 4 ;=22' 75 7 49 ! ' (;3(:! ;! ! =5?4 ;=@8 (5 '=;371 @'@3(541 (55=] (4;=&
'75 O'4 =8=2L184 41@251 ?'''@7'884" 51 '8 '8 '5;7 ' '5 2L1@'(?'8 -,! (5571 ! ! (5 4
! Z ! %'?4 87@ (5= ! , 4 ;=5<4 24=@(1 (55=8 7 '5 49 = '5< (@! !
B C '35G78 '5' '(4<4 2(34 478 (? (5! (5 4 ! , 67= 45 (;3'(1 O':41';(1 (5 4('5 4 1 '8&
8(1 48 (7 (' !] 454(2= '(1 4G78 4 4 4 4 =?';4 (: = 14= '5 ('54 ;941@2('8 =V458'8 L '84
?48; '@ (1 '5 45'= :'8 4 :'8 @(! , Z! K @. . . - . . ='<*

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>'' <
B+

2!' #' ' N [P # ' # ' '

92' / ') ' ' ; ' ' % ' ' G'

" !' , Y

B. ' ' ' 0 !' j=;3bU -22' K 22:7'P3;!C

- ' ' A " ' ' ' !' ' 8' L ' JH E#F-' JF2c' 12 I#'
!&B ' ' ' + ;9' D/! ' ^ !' 9. 95' ' 1#2#F-' JH## ' +8G +8' # J 8<# ' # 4'
' ' _ '7 ' ' ' ' 9' #-' ' , Y' + -#F-' E#J# ' U - +8 '
!' ' ' (4 ' ' ' <+ 12#G ' $ <8# ' ' H J ' 8 ' 8 '
' 9' ' K @ ' D5' ' F E#' E # # ' -F<+8 ' I8 #--8' F# # '
8 ' #' -8' -F E#E#--8' 8#

A, ' 8 ' ' / ' ' ' ' + ' ' "!' ' ' +
" !' ' ' ' ' ' / ' !' ' " ' " , ' ' ' '
; ' / ' !' , , ' & !' !' ' !' ##HXJJJ XI#

K' - ' ' @ ' " ' ' ' 7 ' ' M $ # ' ' ' -" ' 1!' ! -\ '
A' # ' ! !' ';' '5H (5 '67=' =?';4' 41: (54=' @4548' 4' 4 ' '5' I 7 4 (52' =?';4) ' . 6' ' ?'
K' ' . ' ' - @# ' ' ' + ' ' ' ' $ # 7 ' ' # ' ! - '
! - ' # ' G' %'?4' '5< (' 5= (1' & 4 ' 5155' (5 4' !' '
B C' (?41' 3(:4 ' 4?('?4' ' (' (' @!' !' ''?1= 71' (545' 84 ' 78' .=1(5(' ?;?7;' '' ' (' 41@'=' 2484&'
r' (=' (' =1@4= ' (55=' , ' 2L1@'(''8' ZM' :'8' M ' (5 4' !' i!' 9'5?4' .=1(5'8' ':7 ''1' @45?4 4' ;(I@4 5'#!
(;'@ T;'@7'8' :':78' 6784' ''?(''8' 3(; 4578' @(4:(5 ' (88'?'' .=1(5=' @4 1'88'8' 458' O;: ((' '5 (' @5' @ '=8'
X 1'5=8' 4?(; (' <R'' ' 48 4' =84@3= ' !' 2 ' ;!' ' 671' 17 ('=' @= 3(1' ;=58 ' 7' ' '5' O'8 = '(' ''?(' (!' >'?<'
' 8(@ (' @(!' ^n' 5= !' !' r
B ,C' 2(34 458' 49' 87=' =?';4' '567') K' =8 ' + 6 ' B' 2=5'(4' .4 41' 9'!C' ! ;3(''8' B847' a' ` #'
K' + ' 4' # ' <'2'=' 4@=8 ' .49' 2=5'^') # B' L !' @!' -!) 5:G75 ' ' K' # ' + ' 4'
K' ! ' 375;' . " 8 6' 4; 4' 3=;' = ?'54' '114?'(4' @=8' $ # ' + ' 8':'' '5 ';4'5' 85 4 24'' 4' !
3(:4' R 41(;358!Q' ':!' =5845 '55' 4 =' '5' 3'8' 85;;488'=5':78!' 48' =?';48' 4 78 '88'1'' ' 4 5(;:'
B C' ; 845 '' =?49' ' 4 5(;3'' 2(34 !' !' @!' !&J& 2(34 458' (545' =?';41' '8 71' ?484 ;''8' 2= ='
=43=?''' @=5'' # ' (55'8' 99' H . 7?'';'=' 854488'884' (2 ' <''71!' 4G''8' # ' B':!' @!' M!C' (55'8' 9'' ' ? '5? '
' 2('!=;7 ' @=8 4(' - ' 48(2'' < (4 (' (55'8' 9 !' B@!' , !C' @=8 ' 6741' @=5' ' . $ ' . '
.7? ';'' 54@= 41 ' (55'8' 999' ;7'' 87;;;88'884' (' ' 4 78'7 5'] ' @!' ,Z!
5:G75 ' ' (?' (55!' 75?'' - ' K' # ' 2=5'(4' .4 41 ' (55=' 4 5'' '=!' O':4 5'^' = '78' .4 41' ;<'X ''1'
K' (55'8' T=54 5N' 55(248' %' ('8 = 71' (55=8' 92' 4'' ':7; 4' 49' ('R8' =41(5'' 49 1@2(':''8' 7121' 87'241'
K' 4941@2(' 4'' " ' (7 51' ':74 ; ' 4 ' =?';41' 27(545841' B' 8
45'654' (?' (55!' !' Z ' 5((' ' . ' ' <''71' =;3'' ' @=8' 48(271' ?4<'1; 71' # u ' '
4 5(884' '5' %2 =5'(' 78674' (?' (55!' !' ZZ' 67=' - \ ' 4'' 87;;488'' (55'8' 9 !) (; '' ' (7 41' ';4 5(2'71'
3'8' 4@7 5(4' A' ' X1(;358' B'567' C' # ' e# ' - ' 4 ' @. ' '5 4 ' .4 48' 2=5'(0'
K' 5=5' 1'14 (' 67'(' 5=5' 2=5'(4' (5 71 ' 84?' 4 '(1'55' 4 8(4' O':4 5'(J' .4 48' 4 (84 (5 !Q' @!' , !
2(5578' 67'' =:'' ' (5?(4 58' (55=' - ' 3(4;' 3(:4 ' '5' L5;3 =5'81'8) K' =241('' (37 '' 4 ' =2417''
K' '49(' ? '' < (71' 41@= 4' '5' O':4 5'(' 87;;488' 4' 4 5(<75' # @ -# ' < # ' # :8'
A' # ' 4 ' p (?'(8& ((p (4!Q) 5:G75 ' ' K' !' 72'=' (48(4' 4 ' ; ('(5=' 7 78=' 1@; (5 ':78' '' ''('
J' 87(' 87;;48!8' 4' '524 75 ' ! ' . ' ! 1 ' !# ' # ' @ " ' 4 ' =5(''W' ,? '
K' =5(' 7' ':X '' ' (2' 72^' 4 ' 2(7?'' 1@4 (=11' 4 5(' 4 5(' !Q
B J C' 714 =8' '5' =?';4' ' ?4@ h (2=8' 48 ''149' ' 4 5(;'' 4 4 4' (145 =' '5' =?';4' - , ' b='O;7 '45 4

" ' !

5 4
!
BA 92' ' , ' , ' ' ' ' ; ' / ' / '* " '
? ' ' ; !' / ' " ' ' ' ' ' ' '
? ? ' ' , ' ' # ' ' ' # " ' '&" ' ' ' " '
' , !' ! ' ? ' ! "!' " " ' / ' ! ' " ' ' ' ' " . '
' ? ' # ' # ' ' ' !' .' 4

B q' . ' 2%!' *@4@ * ' '24'P3 !C

!' *@4@ 7L' 1 4' 24'P34' # - ' ' /8+GF-#F-' 8E#E8-' +8G #' # ' / # '
' ' 'B -C' ' e ''5' }P3bU' 3' #-' X## ' DUF#' J 12#X# ' J8 + ' - +F '
@=4G 4' 7bU:2'@bU' '34' Z' b' :bU:3bU ' # ' JF' FE+ G# +F ' 8 ' E# 8+-F-'8- ' # #'
22P!' # # # # # !' " ' =5;722 '5' 1 ;' ' %!' < - 8 ' c I# -' JF22# #' 1#2##'
L;bU "2bU"' ' ' ! - 'B C !J 2 #' X#' ' FGF- #

' 99999999' 4 @ ' ' # ' ' ' ; ' K '
' ' ' ' ' ' ' ' '

2# #' 4?(!' ;45:7' '(7 41' 72'78' (48(' (55=' ,?u!' . 4<= 1 (" (' 84' (245?('" . =1 (5' ' (55=' 541 @4' (5 4'
(' (5" =5'!' ' :'8' !" !' * ' 4 5(;3"8' '565' ' (:' '54' 1 @4 (= 48 Q' '!' 4!' (:' (55=' (5 4' !' 92' !
'(2'78' 48 ' (5578' %# '; ' '''; '@'458' (' . 4<= 1 (=' (245?('=' (:' (55=' 541 @4' 6''" (48('8' ;(4?41'
@ =9''54' @ (4;488' ' (5 4' !' - ' (2' '8' (55''8' %# ' % # ' '5;'@'4 8' (:' (55=' @ =9'1 =' % ' ' ; ' (5 4'
!' 92'''!' 7 78 78' =:'' ' (55=' . 4<= 1 (" (245?('" -M' (4 <4' ;=1!' 9' 'N '5;'?' ' 4 =' (5578' @ G'178' (4 84' ;=1!'
'5' (5571' ''2'(5''1 ' 8' 4' . 4<= 1 (" (245?('" ' :'8' =5?' 84' (5571'%(=5'(571'Z- N' '?' 48 ' (2'2'(Z- '
4=' (55=' @5 (" ;(4@4 4!) 55" % # ' @ ='5?4' '5;'@'55 ' (:' (55=' (5 4' (4 (1' ;=1!' !' %'?4' '5< (' 5= !' Z
Ngra' =5 45'75 ' '5' (55'8' 9'' ' 48' ' 4 5(;2'" ;=?';48' (5 '67' ' 541 @4' ?7=' =?24'(5" 4 ' 2(34 4(578!) '
2(5578 ' 67" =:'' ' (5?84 58' (55=' - ' 7 ' (5 4(' ?'9'158 ' (55=8' . 4 71' 5=5' 5714 (' 84?' (5 71' L5;2' =5'8&'
1=8' 4 ' 4 :(' 4G''8' ?4' 4 78'" 41 @= 4' 1' 4' ;=5 45'75 ' K' 4 ('(578' 7 78 =8' ?7=:78' (55'8' 1 @4 ('H' ;71'
K' 4 78'78' <'2'(8' 4?4" <(; 78' 4884 ' . 49' 2 =5'(4!Q
(?41' 2'(34 ' 49' =?';4' . 4;(5=' 2(34 478 ' @(!' ,Z ' 4 ' 6'''?41' ;=5L45'75 ' =1548' 67" 45 (;3'(1' 4 4 41'
O':; 5';((' 145'= (5 ' 4 5(5 4' '5' O':4 5'(' @. '7 ' '5< (' (?' (55!(5 4' !' !

B C' ' % }T!

=8 ' 4 :(' O':4 5';( ) K' Z' W' ' G' !' . (V2!' - ,!' :(84' 2'(:4 '6''(4' ?4875 ' '5' ! !) K' # # # # #'
K' (' ' (8' 6 ' ' ' 2'5?4;'1 =' (55=' 5 78 '!Q' 4?' '?4' '5< (' 5= !' !
O(N;' 855 ' (5 '67'88' 1 (' 67'4' 49 (5 ' ?4' '@8=' (55=' 5(' ' ('8' =5;722'5' ' ?4' 67':78' '?4' (5571' (4 (4'
=5'!' ,!' 5?=' 4;24' 2(34 478' '565' ' ':'?41!) 55=' 7;72(''?" O4 ='8' 5((241' @ (4;4?45 4' 67" (55=' 3 '8 "
, ' ' '2'2" 84@ 41' (55=8' 5(78 ' (:' (5 3= ':78' 8' 5(5 4 ' (?' 7 ' ?45(''8 ' ! ' . ' . 49' O':4 5'(8 '
O'' =5'" (5" ?' '8'=541' O':4 5'(4' 4<'9' 'B24 4' 48;'88'H!C' s7=' 41 @= 4' = '5;'(71' -' O':4 5'(4' . 4 48' <74 4'
. #- 'M ' i ; ' p ' 7 ' '5< (' 5= !' Z!' =5<4 @(!'2 ' '5< (' 5= !' Z ' M !
=5; 22(5?''8' '224' 1 4R5= (:'2'8' @'' '2' '5' 2'';41' 4?' 78' 48 ' ! !' M, ' (1' (55=' @ '1 =' @=8 ' 48;'88(1' O5 =5'"
(5" ' '8'=541' O':4 5'(4 ' 67(1' (55=' ,-' (5 4' n@'' ' (4 (4' 3 '8 G(7(4' t ;!' N 5 ' (@5?' ?' 4 8=8' 8' '22('1'
;@''8' 5(''1' '5 45'=' '5' =?';4' 24(5 ' '5' 2(55" L5;2' =5'81'8' (@7?' I 7 4 (571 ' <=2!' - ' = ' '5' =?!' 4;(5!'
<=2' Z '$' 4 ' '5' 27=5';=' ;= = ' (?' (55!' ,!' =

9 # 2' !

!&

/T A -' , j' ; ' ? ' A' ' K E ' '
'& '; '? ' ' ' " `""! '.' 9' 9
Wk ! . ' !,!
!' ,' '$ ' ' ' ' ' # ' !' B ZC'
' ' ' ' ;' # ' ' ' ' " ' ' / k
' ' E '+ '2' i' ' ' ' ' !

B. ' O' # 'U' j=;3w' ' *@4' '&2 =;2'' . ' 7'\'I= '\ ' %!' =5;=29U@' 5'4*IG;<@ !C

' J2# ##' ?<82hH2 JH' ' !$ I I(V K& ' ' ' # ' D)'
B'5' (1(5'(C' =5;=O@' 5'4' K24@@?' 6 \" 2 ' '& !' $Im(

=5bb'@4' 1=@' .#U4' P4@@U4='2' D !' C':! = (('78' (GU78' p'2'78' 2; 8<Up*=2'"
bU5!' D2bU'; ' '51"';' ' #U55U':3 .4 '8' O':4 5'(8' .49' <7'' 2'345'''4' (''5'!8'
 ' ' ' 999!' B C' ' '8(' 4!8' O':4 5'(''5' B@''1@'4'
#9)#U 8' <' J' Y8<I 8 #2' 8J <' ##O @(48'@=8'@ '1(1' (8 ('=541' X'8' 8" 4

BU C' 2'(?' 48'@ "# ' ;ph'4'wT' b'7=w' 48 (1' 48' (55=' (5 4' !999'' (2'" ! ' ' 65" 49= ?'71' 87'1'5'
(:' (55=' 84 745 4' (5 4' 3 '871' 999' 7' '5' 458= '5=' ;(@', ' 67=' (55=' 5 =5'=8' 4' 24=@((' 8':" '''1'241'
'5 7%4 75 !' >:' =;' (55=' 7' 4; =' 5= d' ' 41 (425'8' (55" #t v' ! - ' (;;7 (4' 4@; 75 '' ' ('' ; = 4'
'=54!' 2'" 875' (55" ! - # '+ '67" 49' (24=?'8' (5!' @ =<';'8;''5 '' ' (:' (55=' 54'5@4' b''= ##'# ' '
<' ! -# %% ' 6' ' <74 4' (5 4' !' , Z' 6 '=' (55=' ! - ' 5=145' 7R8(" ':7 ''1' 48' 7' '5' ;58=''''=' ;!' , !'
'=54' - ' t ;!' 45'674' w 5' !855' (55" . 15=5'\ 5\ f' # '< # 76' # # ' '5' '71' B:';;'' 48' (:' (15"
@ =9'1=' @=8' ;A?4'5' !' ' 8('8' (:' (55=' 541@4' (5 4' ' !' %'?4' 5= (1' @ (4;4?45:'5" !
N U U' 4' 3=;' .4 4' '?4' 87@ (' 54 !' !
45 (4<''84' O':4 5';A' = '5;''8' @ A<7; 4' 3=;' 41@= 4' K' 4 58'78' 'M ' 6 ' ` - ' <'2'5!8 !8!' 5"
A' 4' - # ' $ ' < (4 ' ('' ' (742'!8' 4('' 7 '674' + D# ' ' , ' <'2'78' 2I' 58'"
K 1(''1'' M - ' =55(; '(1' 71&'5' 4 5(8' @(48' ?' '8(1' @=88'?4:(5' 4' (15=5'= 71' 841'54' . '
K <'2'78' . 8' . # # $ ' (' '?3(;" .4 '(' '14 $;71' 8654N ! ' ! q' ' (' BT('' 4' 5 '='
K' (?' 7:'51' 4' =:'8'51' 227 '(8' '5' ==5<''':58' ' =('(R' 4' t ' <'2'78' =1'' ' E(5' '41' ('5@2(1' 2\='!
$ ' @! '?3(;" .4 '(' (?' 41= '(1' ?4' = (5'(?3' '5' (5'(!' !9' :'8' 4 (5 ' @+ # ' 4' @=&'" 1"
K' .4 48' =55(;'A' 4' (15=5''8' 4' (2'" @ '8;" =55(;'(R' '5;=2A' - ' (@@422(' Q' 7' '5' F ' '
2(5578'5' $UN5;3 =5'8'18' 567' !) K' !' A8(44 ' ; (<(5=' 7 78=' 1@4 (5 ':78' 455(' 87(' '5'4 4' 874 48&'
K' 8' 4' '5' O'34 5'(' 7 ' . ' ' ! # ' # ' @ ' 4' # # ' ' _2; !*;4=2'"
K <'2'78!' u5('58' ':4 '" (2' 7 4' 4' 2(7?'H' 1@4 (='71' 4 5(' 4 5(' !' =5('=' 4 5(5 4' 5(58' r!H'
K' 3 '8 58!Q' F
B MC' K' ! 55'8' 9!Q' =5 45'75'=5148' u?';48' 49' 65':78' 846 '; 4 7 ' =5;=:(51' 4 5(884' 78BD54' (?' (''51'
A5;' 4=1!' 999' 67=?' 54;' 4G';'45?71'=@'5= !' ?=54;' (5 265'= (' (<'4 (5 5 !
B C' OA;' ?4' =5('" (55'8' @'&=;@2' ?7:'=' ;= 7@ (' ?4875' '5' =?';4' - , ' 7:" ;9 ''8' 8';' ; '27 !)' K' O= ' !'55='
K' ;A@'' 4 5(4' ' ' 7 $ #' ' ' B@'" 4 5('' (55'8' 9!' ' ' ' # ' # ' ' #' #' '
K' # ' # ' ' ' ' # ' ' ' # ' #-- ' #' $ #' ' ' ' #%#' 1 #' - '# # '
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2(34 4''8ˢ '567') Kˢ =5;=:(78ˢ 488(578ˢ49ˢ 488(ˢ 1 (4 ˢ<R2'(ˢ ;3z'ˢ 7'2::5'?34ˢ' (ˢ ;= 5=1'5(58ˢ Kˢ . ˢ 2=5'(4ˢ(;ˢ0':41'(4ˢ. X '8ˢ<'2'58ˢ 4 78'=ˢ. 4 '=ˢ?4@=8' =ˢ ˢ ˢ 2=5'(4ˢ?(=ˢ (884?' ˢ4 ˢ (55=ˢ [[3 '8 '(54ˢ ˢ ' (1ˢ @2(;'?(ˢ 1= 4ˢ<'5' '!Qˢ@!ˢ, ,!ˢ+ ˢ '9'884ˢ '4ˢ@= 7'ˢ(?ˢ(55! ˢ67ˢ 4 5(4ˢ;A@'ˢ(55=ˢ (5 4ˢ !ˢ999!ˢ4 ˢ8ˢ=:''ˢ(55=ˢ ˢ@=8ˢ 4 5'1ˢ(55= 51ˢ 9ˢ 4 R(884ˢ=@= 4ˢ(:ˢ(55=ˢ(5 4ˢ !ˢ ,ˢ@= '78ˢ67(1ˢ999!
5ˢ =?';4ˢ- ,ˢ384;ˢ24 75 7ˢ?' 4 8(ˢ(=?';4ˢ !ˢ Kˢ $ #ˢ#6ˢ 8 ˢ+ ˢ ˢ ˢ1 ˢ3 ˢ #
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ˢ0 #ˢ =5(22ˢ 4(5(?ˢ<'2'78ˢ. 7? ';'ˢ. X '8ˢ 0':4 5'Aˢ '54@=8ˢ 0 ˢ 7178; (;3'ˢ< ('(ˢ 87ˢ 87;;488= 'ˢ =5;=:(ˢ 14ˢ 488Aˢ<'2'=ˢ 87;;488'ˢ(55'8ˢ92!ˢ 55=ˢ @ '1=ˢ 5(2ˢ =5('58ˢ. 49ˢ 0':4 5'Aˢ '5;45?'=ˢ@4 '' !ˢ 41= '(ˢ49'5?4ˢ. 4 5ˢ84?48ˢ67'567455'=ˢ (;(' !ˢ =41(5ˢ 2(5ˢ %ˢ (!ˢ4 ˢ 2(34 !ˢ@!2 !
ˢ@(ˢ 87;;488'ˢ. ˢ. ˢ. 49ˢ 2=5`A ˢ 99ˢ(55=8!&! & '(2(1ˢ ˢ ˢ 49 '5; 7'5ˢ ' 4 5(;358ˢ(?5= (' !ˢ 2(34 !ˢ@!ˢ ,!ˢ '?4ˢ'5< (ˢ5= !ˢ Z!
B Cˢ '8878ˢ48 ˢ '2(78ˢ =;7 (= ˢ'5ˢ 7?(4(1ˢ(55=ˢA Aˢ;=1!ˢ,Z!ˢ Aˢ =88!ˢM @ # ˢ4 ˢ % ˢ Bˢ 7 '5G=84@3=ˢ ! ˢ;!ˢ-ˢ 4ˢ'5ˢ 784:'ˢ@3 =5!
B Cˢ 5578ˢ9 ˢ ':4 'ˢ4 (ˢA Aˢ;=1!ˢ,Mˢ;7 458 !67 ˢ 3 '8 78ˢ :(@' (78ˢ48ˢKˢ ˢ !ˢ $ ˢ0 ˢ4 ˢ Kˢ !ˢ 7 '=ˢ0 Bˢ = Aˢ' (674ˢ<4 '(248ˢ8=@ (ˢ '5ˢ 49 7 ˢ 4145?(5?Aˢ875 ˢG79 (ˢ (4 ;7271ˢ :'8ˢ 55(2':78ˢ @ A1'8851!

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B ,C' 5578' 55?" 'G78 (' 04:5;=8' 5=5' ;=5 45'' ;71' (55=' 5;(5('=5'8' 999' 4 8" '?' @'' (V ''';'
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9 '"24 4'9 '' ' 4 ' ;= ' 4' ;(4 4 (' '5' 49 7!' =5872(78' 45'1' 9 #8' *15$ # ' # #5 ' ! -' ;2' w K'
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K (55=A ('8' 999''" '5;3@(=!Q' 9' (5 42'=' ;=58 (' ' (8;3((' '' 4 ; ;8 8'884' (' :(@ '9' ' =' 25: T' (?' @(88'J'
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8 < # JH' _J' < #-' U ; #J' 8JH8' # ' JJ#-F-' ' J' 8JH ' J' 8JH F-'
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@ =9' (71'@=8 ' '2'71' <(;'178 ' 67=' 5(78' 48' =1 '5(8' ' ,-' E' 4 ' (7 471' 5714 71' 2' ' '22" (@@=5'178' '5'
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' ' ';2'=(71' '5;'?4 4 ' 8';' 7 ' 5714 (" ;U@ (' 8' ' 2L1@'(8' M-' 848 ' '8' ?'4:78' (55" @ '1 " (4 (4' ;=1!) 0=;' (8 = 71'
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9'9' 5(2'8' :'455'= ' '54(5('=541' 67'?41' 4' (' ' (41 ' 75=' 4=?41674' (55=' ;=22=;(' ' 84?' (5571' '8 71'
'@851' 67=' '5;(5(78' 48 ' 4 ' 5(58 ' %#5 ' =1'5" 4884' G7884 (' 5=5' 846745 41' (' # (245?'8' (5!' '5;3=(5 41'
7 " 5=8!' s7" @=8 ' 4?(1' 8; '@84 4' 2' =5= (@3'&' ' 4:4 78' ('(5=8' (<3(478' E 48 1!' 4 ' (2' ' ' ?(15(('
'=5L8'" 14 3=?= ' ((241' =1'5" , ' 42' , ' (55'8' (5 ';'@(5?71 ' 4 =544' @7 (4 75
B ZC' ' 4 8(8' ?4' (55=' =:' 5(24' =5;=:(" 845 45 '(8' 4<4 ' ' 4 5z;378 ' 8(@ (' (?' (5571' (5 y' !' 999 ' 4 '
(?' (55! !' ':4 ' ' ' 3 '8 " 99' ' ' 575;' (?' (55!' !' ' 4 ' ' 4 71' '5< (' (?' (55!' !92' '!' %'?4' 87@ (' 5= !' -M!
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J' =41(5' (145' K' 4?' 71' '5' =24 =145'8' 5=8 '8' =5;=:(' =:' 7 (' 4<4 ' (?' (55!' !' 92 '''
471674' 846''45 48' %' ('8 ' '5' 55(2':78' 7 ' '5' L '(' @!' &- ' 4 ' , !
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5 4 ' =5;=:(1 1'8=5) 1 :(= 3716(4' 45(;3(1
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' ;4 4' '5' (1'54' 7 ?' 7'w::' Q' ==:=?278' 67" A;52=' '9'<2= 7' ' 45714 (' .4 48' #(1(5' 4' V '
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3= 51' 9 ' .4 71'5=145;2(7 (1'(2'78' 78' =4 ('Y ' E '49''':4' '5' (1'54) K' ' '(''!'
K' i> B' 67=?' (145' 2(34 A78'('?=; =' 4 =' ' ' ''8'w';=1@((' '7 ''@84' ?X;2(d' '5' @!' (?' '5;A''5''
@!' ' 4 ' 78' 1458' (' 2(34 A" @ =@'567'8' @=8 ' =:' 7 '' 7 ' '@84' 8; ':' ' '5' 1 ('54' 4941@2('8' =V458'8'
L 'A' @' !
B C' 714 " 84 4' 75?(5A' '5' ' 4 5(4:=' 7 @27 '171';@5 45'75';71' 4?(' 7 '(5 4(' 1=57'178!' 514 "
87@ (' 8; '@ H' 48 ' 775 7 ' ' =?!' - , ' ;=5845 '45 4' ;71' 4?(!
,KLY' ('78' (2' 72(' 1 @4 (= ' '78' =;;'878' 8- ' #>' #(2!' 4:!' (55=' B ' 67=' 85;4488'' 67(48' 1 @4 (=
2(7?'78' .4 5(''' (674' ('78'(55=8' ' 2' !' ' 4 ?' 8 0' ; ('(558' 4 =' (55=8' - ' 1!' !Q' 7 ' '5' 784:'='
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BZ C' 4' 4 "(? 45 =' .=1(1' @ A;2(1 1' 4??'' 48 '1=5'71' 4 722'(578' ?4' A8; '@ '=5':58' ;!' ' 4?'
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B MC' 5' (55'8' ;=5845 '75 ' =?';48' 4 ' (1'5(' 4 4 (' 7 ' '5' L !' @!' / ' 4 ' '5' %' 2('8 = !' '''''(2!' 2' (5&
558' @ A 4 ;(' (' ' '5' L5;3 =5'8 1 '8) K' !' 5 4 78' . 'M - , # ' 7 ' 4 ' ' ' % '
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B Cˢ (58' ˢ 4 4 78ˢ '5ˢ ' (55'(ˢ (:ˢ (55=ˢ , Z ˢ (?ˢ =:' ''1 ˢ (55=ˢ , ˢ 4 ˢ 7871ˢ ;=58 79' ˢ (55=ˢ , MGˢ @=8 &ˢ 67(1ˢ 0(? '(5ˢ 17 '1ˢ 48@' ' '''1ˢ (''8 48878ˢ (4((71ˢ 4 ˢ (24?=5'= 71ˢ <'548 ˢ (?ˢ 49 41((ˢ 5872(0Nˢ ' (55'^ˢ @(41ˢ @454 (' !ˢ U 4ˢ 17 =ˢ '?4ˢ 1' 3 ˢ 5= !ˢ , ˢ (?ˢ 4?!ˢ @!ˢ , -!

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9DJD)#' 9) 8' # J' I_ D)02 D)' <1 ' 8- ' 1#2##-' +##' ,B Y' 1#2##' G 2 8'
2F D)#' # J' ' _' < 1 ' J J8#U#J' 1#' J + ' FG E#F '1#2#F ' #' 8' J + '
J 1#JH))#U' BY8U H' 8')nW,# J# '<#' F- + 28 ' 12#8 # ' # ' SF ' JJ#-#'
_' D)<8D)<D)' h<F+H' D)#<' # 8' 7' J 8<' -F ' T 8E#F-' 1#2#F-' ! + J# 8#' 8X0'
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)8 8D! ' z' g)#<<<#' I2# '#e JD)' _'#<' D) <D)' : F8+JFF ' JJ#- -' 8- ') G ' #' 8'
J2F JH' < ' ' D)JD)# H8 H' 8' ' 2 : F8+J8 #' JF- -' ' G ' 1#2# ' 2#2J2#

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4 ' 8;T' =8 '(' (5817 (58' '5' 2(@'?45'5' 7 ' ;= = 71 'B'&4!' 0':4 5= 75 C' '5;7 8'=548' ;=3':4 4 !
B C' K' ! !' 55!;' '99 Q' 4?(!) K' - " ' ' 841'54' . \' .4 '8' 0':4 5'A' 04 41='''78' @=8'
K' * \%# ' # ' .49' 2 =5'A' (55'8' 90!' (1 (5'51' =1548' @(88'1' '((;:" .4 '8' <'2'7'5' (?75 !' 4?'
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* 4? @7 p?= 1 ' 48 ' ;=1 1 45 5 1 ' '5 67= 3 '8 '(5 " . 42R R= 1 (5'<48 4 84 @ =?' ' 54654 8'5' ' ''2'=1 (' 7 ' !72 ('
8A;7251 ' 1& 4<4 (5 ' '24 *?4 4= ' 4 5(;358 ' 67" (2'(' (1 '5(' 4 4 4 X (' @ =<4 458 ' @2(54 '5?';(' 6''('5
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9 ˢ <<<!ˢ JHˢ 22JH ˢ 2 8#JH8 JH ˢ JHˢ I JH ˢ dF# 8

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9 ' " !' D)JH : 222D) F# #' _' " ' D)JHD#' U 2# 8

9 ' " ' D)JH ;2F#GH0 8JHJ' > # 8D)#4 <' 1# J' 8' c2#<J' J91#' I)D) H' m 8# ' s 8' J8 <D)' # 2#D)' H #D2

9 2' ' 8#JH<8' JD)JHD)' 7(' 1` #HJ## ' 2D2' U# J' 8' 8#<8' J' 2 JHD)28# ' J' 2F# H0' # H' J' !<82#28' 8 F<' J )<D2# ' J' I`2 <# 8' J?<8<+D)' J <J D)#<' JH' JD)8 <HD)' D)' 022#22' 2 ' J' _2#<K' D) ' _' < D)2 #' #D)' #' # # H8 ' #<# ' 2D)8 0' 8<JD)' 8# < ' hF 2 # ' # 8' ' k5 ' C7U 3' ' 3' 2 ' 34bU5!

' >>>' I2# H' # H8 ' _' J' # 8 ' 2D2' D)JH ' # -8 ' 18# H' XXX ' D)<' 8J8' #8' ' <# H' 8T' < ' +JH' < X 8' # ' < ' , ' 2 # D)# H' D)U' D)g)#' D)8 ' <<' _' < D## #' D)' <#?##9)' 8 ' J <# #)J2#' #<

9 ' ` ' $+ 82#F ' 8J8--F-' I# 8' - + 8' 8+' G8- # ' 8 ' +# ' <+ 8 ' # ' #G+#-' -#2I#-

9 ' " !' $+-82#F ' # ' #8 ' <#' $8 +- ' - J++ ' 8 ' -8< 8 <+-82#' 2# 8 -#

9 ' (%' $+ 82#F ' <#' 8JH @ 2 --#-' G ' JF+ ' / ' 1#2# ' + HF+#' F2 + ' 8 <F ' ' $Iw(' -< # ' +#I# ' +F

9 ' # ' : F +' $+ 82# ' J + ' #0' 8 -8-' G8- ' ' + J ' $+ 82#' 8+8 -8' JF-' 8# 8' , 9 #22 + 8 Y' # 8+#J8 -8' $+ 82#F ' ! 2#-' J + ' #8 -8-' -# # 2# 8+' $+ 82#F ' 2 - UG2#' $+ 2#F ' +#0' # F ' $+ 82#F ' !8<F2JH+#' F #' JJ# - -' 8- ' JH E#F-' 2 8+#-' 2 G#' 1#2#F-' 2#2E#' $ 8 8^' $+ 82##F ' #-' JF+I#' 8' - + G8-' 1#2# +F ' , I82' ; #+G# F ' &+F#E +F Y' # ' -8J8--F' #+ #2#' <FE' 8 +# ' <8+' &F 2 G# ' 1#2#F ' #' 8+ #-' 8G8 ' G8 c 8U' #E' 8- ' C ' 8G# 8' 1#2# -' 8 ' J8 F ' 1#2# 8' 1 2 8-' #JF#SF8' 8 # ' ' -F<+ ' 8+J8 F ' #- -' 1F8+8@ &F E8J# ' 8GF * -' JJ#E#' # JF-' < - 8 ' 8' G8 #8 0' -# F-' #E8 ' 8 ' <+ 8 8+8 ' J 8G#' G8 # ' - 2I8+8' F ' +# F F ' -# F2' JF ' F ' @ = 45 7!

9 2' !' <# #)J' ' ' D)JH<# HD) H ' 2JD)# H' , . CY

9 ' " !' + JF-' ' ' +8G ' 8X<F2- -' ' 2 #8 -# F- @ 9 ' !' 9 ' "!

B ZC' ' ' ' J' 45Q' ' 5= =!) (8' V'('8'] 4 1(5';' '5b'5('5' .2'4578' '5<27' ' ' ' (' (' .m45=' (@@422((' <''4 ' ' O':; &' 5';4' 7 ' 4 ' 1(4' # ' (' @= (' ; '=!' (4' (1@71' 8467= 471' ?'; 71' ;=58 (' 4 ' %' ('8 ' (?' (5571' *, ' 71@71' / ' 49@2';(5 '?';45 48' G' ' ' ## B' 9' 4 =8 '8' =?';':@8' O':4 5';'8' ?4' %' (' ! (';'' ' 4 4 48' O':4 5=8' =8 '(' .345' < 46745 (884' 4 ' ;71' ' ('8' (9=5 ;'8' <44?4 4' G75; =8' <7'884' (5 4(' 5= ('1''8' '41674' 49' ''145'=' 2(5? (5=' 4 ' (2''8' N '?674' 42' '5?4' @(4 ' 6''=?' '(22' (5' 59=' <74 ' ' (9=5'4(!) ' ((' 2(34 458' =1(;7 =' .4 41' O':4 5'1J' '5 45 41' 2(8841' '5' 84@ 4'' ''=5(241' '(55'(1' 1'8'884' 67(' '455'H' 8@(;'=' 4(8' = (8' '5<48 (5 4' 1@4 71' O':41';71' '5' 2:(5'(' 4 ' 5872'8' 494 '!) 4' =1'(;' 1(5'<';45 'U' (1@2'<';((' @ =;72' ?7:'=' (' =4''8 ' ;=58'?45?78' 48' * 7 4 (578' '5' (5''54' K' # 57 K' 1 - ' ' # B' '8 ';3= 75' ' ;7G58' 941@2(' '5' @4 (145(' 49 (' '5' 3(;' ':2'= 34;(' =V4''84' '41674' '5' I 7 4 (5' =?';4' (@7?' 2(34 !' @!' !' 4' = 1(;=' 4 ' 4G78' 58 ' 5 '8' '?4' @2= (' '5' %' ('8& =51' 55(2R:58' (?' (55!' !' ,

B- C' K' = 1(;78' i;1 '?'; 78' 67=?' 2'?'78' \=?(' '!' 4!' %# ''5' (55'(1' 4' O4: '?48' 424 (' '4= 51674' K' U41' 45 ''8'51' '55' 4 78'' 45 '5' ' <'2'71' '5' #\ #.# - $ ' @ 12'=' '5 45 ' 2 = 71' ;2(?4' K' ' (' 8@=2'(' ' 0 7' 85;;488' ' 4 '(78' = w' @=8 417(' %C =5'1' (@7?' (1(5'(1' 49!II 2(34 !' =!' -!

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$+ 82#F 'G8- F ' <FE' / H +E# -' +#0' c -' ; #J +# ' < + ' 8- ' ' 8G8' # 8+ # 8' + J ' 8< 8' #' J8 F '$+ 82# +F ' 8 ' ' / # JH ' F228 2# ' 8G8' # 8' J + '$#J - ' 8 ' J + ' / # JHF ' + E#F ' / # 8' 8G8 ' F #' 8 ' #<-8' J8J#E# ' F ' 2##' #F ' , K Y

AC_' ' ' ' ' ' ' ' , ? ') ' + ' & k

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B 8C' ' 4 5(;37i'(4 (1' =1!' @(88'1' (5 4 4 ' ' (55'8' ' ') 7 42'78' 1 @4 (= ' 99 !' 1 @4 ('H' (55'8' 9'''!' !' ' 4 ' (9'1'578' 4"' 87; ;488'H' (:' 4'U4 ;' 5'; 4(28' (55=', -!) "' ;3((; 4 48' / ' 5714 45H7 ' (:' (55=' , , , ' 87@ (' 5= (= '5' 1 ('54' (5578' 67=' 7 42'78' = :'' 'G79 (' ' 4 5(;3 1 ' '5 45'4 7 ', Z' @ =' 4 =' (55=', -!

B C' 249(5?4 ' =; ;'8=' ! ' , - ' 9 ' # '!' @ ' ' ' 87; ;488'H', ' 1 @4 (= ' (9'1'578 ' (5!' '2'!

B C' 5' ' '8 (' 4 84;'' '=' ' ' 6784' '5;3=(' ' 4=' 'DT=' (55=', -!

B ,C' 2(2'4 '478' 49' =?';4' 87=' '567') K' .\ ' ! # '@("' 87=' 8 - ' 0 $ ' 87; ;4?'H' . 49' 2 =5'(4' K' ' (55=8 Q' @(!' !

3 116 ' 0 $ ' 454(2= '(1' "' 142' 1 (55' 49' 4 4 4' ! !' ?;8; '@ (1 ' '5 45"' '5' 1 ('54' 941@2('8' =V458'8' 2(34 84' ' :'8' 4 :'8) K' ! - ' 0 $ ' ' #- ' 0 ' ' $# ' # ' ' + ' ' K' # ' ' . ' . ' ' ' 0 #' ' 6' # - B

B C' K' . @! # ' %2 =5'84' . 4 ' ' 87; ;488'H' 4 58'78' 45 '5' 4 ' (1(5'"' 4 '8' 2 =5'(4' @ =54@=8 ' 4 =55"' ;45 71' @ (42'= 71' 49' (5'(' 2R2'(' 54@=8!Q' 2(34 !' 49' =?';' :78' 87'8' @!' M!

B C' 55=' 541@4', Z' 6''=' 8=2'8' ?4<4; '=' ;=5 ' 'H' ?'4' ,' @ ' ' ' := (' ' - !' @=8 ' 14 '?'41 ' <4 '(' (!' ?' ' = 71 ' ;7G78' 141'5' ' (@' =2'578' 7 ' '5' . =4< '5(' 41@= 71 ' '9'!' ;!' , !' %'?4' 4 '(1' I H' ?4' 4 '<'4 ' 248' (48' ! !' 3 =5=2!' ?48' ;2'@848' @(!' -Z!' ;

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U' ' , ' E ' ' ' # ' !' , _ Y

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B -C' 4<2'"' (5571' 175?' MZ' (@@=5' ' @ ' 1='] = ?'(5' ' 65" @ =;5%' ?7:R=' 4 5(4' ; ^ @' ' ' ; ; 999 ' ' !) '
" ' 4 5(42'R' 5= (4' / ' 5714 45 7 ' 4 = ' (8674' (?' (55 ' ^ 4' w=1!' , , , ' 1 8' ' " '8 " ;=1 15541' ?7=:78'
(55'8' @ (4' 4' '5 45'4 5
B C'] = ?'(558' 1 @!' 99 ' ' !' 1 @4 (' ' (55'8' ' ' G79 (' 784:!' 4 ' 4?!' (?' (5'1 ':' 541 @4' , !
B ZC' < ';(5" @ 4;'@7(' < (1;5 (' 4?'?' ' ;(' 4 ' ;71' : =5';=' (84:''!' 4?' ;=5<784N' @(72=' ?'8 '5; '78'
] =('58' '5' 4?' '=54' 87(' L5;422'!
B C' 4?(' (55=8' " @(' 4 ' ' :7' '] = ?'(5=' 4 ' (5571' 175?" , ' @ '1=' (55=' 3'2'@@" (?8 ' :' ' 7 " 4 '
' 4 5(;''58) 6=" @ '158' 3'2'@@" ;?5;7 ' ' ;71' (55=' B ' , ' 67(=' 45'1' 3'2'@@" (55=' 27?" 8(&;52(48'
.=1 ^' 4?' " 8''5 ' W' + ' ; 6 ' 6%% ' ! - ' < ' ' + ' + ' +%% ' 0 # ' ' 7 ' 49' 571'8' ;=58 (' '5' =; !'
41@!' !' 9' ' ;!' , Z ' 67" <7' ' ^ ^' ;=1!' (5578' , !
B MC' K' ! !' , Q' 4?(!' %'?4' 5= (1' , ' 87@ (' @(' , !
BZ C' (?41' 3(:4 ' 4?(' 84?' '5;=5872 =) !' 0'4 =5L1 78' '5' @=2= '(' (? !' #7<'571 ' 5=5' ' (' ?';' ' 84?' K' 54'
K' 14' 1 ' (8' (?' ' 2': =5'1' 4G58' 67=8' 24 '884' 4(51' (@(1' @'@3(5'71' ; '1 '5(R8!Q

BB ' p' ' '' !

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B .] ' q ' % ' ' !C

. / 2(6 F# h8JD)JH # ' ' ' '
, ' , ' b ! ! ?m<8U 1 qm< #2+0
28J) 2F)#1 ' _ ' ?m<8< F#? D)##0I<#D)J2 J ' D)J
r@= : @U ' : :) ' bU" "@ '5'!
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D ' - ' ' % ' 99 '
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/ 8+GF-#F-' #G+ +F ' E8 #F ' +TG ' # '
y ' JF ' EF -' 1+ +# F- ' # ' 8 ' / 8+0
GF-# ' + ' 8 ' / 8+GF-# ' &8 #-J + '
SF# JJ#-#1F8+8 +8G#8 -# F- ' +8G I8+F '
F #-' B 0) & F F-' # -8SF8 # F-' #-' 9 2 '
' # J#E8+F ' #F 18+# -' ' 8 ' @ '
8X#2#F ' <F2-F-' 8- ' + JF-' ' ' -< # '
I## 8 -#F
9 ' " ' $+ X# ' ' 8 8G ' 8X FJ0
<+ F-' 8- ' + JF-' ' ' <8+ 2 #0
8 -8- ' $ - 8 ' G8- F ' 8- ' $+w2#F '
/ ' ' +TG# ' ' + J ' 8 ' H Ew '
1#2# ' 8 # 1#22# 2#2E# $ 8 w ' JF ' -F#-' '
8GF2#- ' 8 ' JF ' -F#-' SF# SF G# ' &FJ#0
F-' J H + +F ' 8 ' 8X8+J# F ' # F 8+ #2#
-# #2# 8+ ' 8 ' JF ' FG E# ' G ' 1#2# '
GHw F E # ' J + ' 2 #8 -8- ' 8 '
JJ#-# -F ' +8-' / 8+GF-## ' # ' 8 ' / 8+GF-'
F- ' / 8+GF-' &8 #-J 8+ ' 8 ' / 8+GF-'
&8 #0 #G8+ ' ' F ' - 2 ' I#+ ' FG E# '
G ' SF# F2# ' 8 +F ' +# ' J <# ' 8 ' F2# '
8 ' + J ' # ' ' # ' 8 ' F2J ' <+ '
< +8 -F ' + F+ ' 1#2# ' # J8 F '
<+w2# +F ' SF8+ ' JJ#E8+F ' # ' < '
FJ+F ' ^ 8 ' G8--# ' H EwF-' SF F + <+w0
' # ' F ' E#8 #- ' # ' 8 ' <+w2#F ' JH G
8 ' <+ ' ! # H 8 ' 8 ' <+ ' &+ 1F E ' 8 ' $+ '
F<#-' # ' # ' 8 ' SF#2w @ $ - ' <+w2# '
#- ' JJ8<# ' H EwF-' SF F ' 8++w < F# '
F++ ' I8J F-' J#+JF#+8 <# +8G#8 -#- ' '
8 < +8 SF ' I#J +# ' < + ' 8- ' F-SF8 E
J 8 ' VU8# 8UF-E8 ' 8 ' < + # ' SF ' J#+0
JF#I# ' 1F# ' +#J8 +# ' # JH 8 ' #E 8- '
' " 2 -- 8+ ' F-SF8 E J 228-' SF# <<+ 0
<c SF ' +#G# # 1#F # #-' #1

" ! B.
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9 ` < D) V 29) 29) bU2 4bB& 9 ` -8SF8 8 --#F- 1#2#F-
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BZ C K . =88'78 <'2'78 5 1 ;3(?' 4 . 5? ';'(w5 4 4 58'= 45 '5' = . X %2 =5'A 4 0 ' : 4 5'A '5
K 2 =5'(87; ;488' . 49 2 =5'A 571 (5571 !! 4'5?4 45 78 '55 4 58'' 45 '5' <'2'58 (55'8 ''!Q
2(3! @!2- !
BZ ,C 4;'78 ''1 ! 4 84;5 '=541G588' ! !, - ! 584 : ! ' =5 4 0 '8 !<' 4! ,! =8! ! ;!, ! 5 4(
p 4548 2';4 ?=; '5('58' 5'8 378 ?=2'8 =: 72' H! @'@3(5! 0A ! ! ? 54 (5 (2'65 N 84? '5;(8871! %'?4
4 ('' 5'1 (? ! '5 @'@3(5! ! , =2=5'84 , <=2! @(!, -Z! 4;'78 <7' 1 @4 (= 999 (: (55= , M
'5 ?78' 4 (55= 5'458' : ! '''!
BZ C 4484 ?45 7 (55 4 5' <' 4 1 (; 358 45'1 5 : ' ; 7 1654 (5571 7551 '5 45?' =;41 49@ '14 (
8=24 7 4 (2' 3 =5= (@3'! 2(34 478 49 =?';' : 78 87'8 =5(=8 ?7=8 q 5 78'= 2 : = (?8; ' : ' % 78 3 =5=&
(@378 X '; (8 E 1 ! 942 , 1 7 '5 55 '54 94 1 @2('8 =V458'8 2(34 4' ;3((; 4 '&
: 78 4 2'5 7(0 ' : 4 1 '; (14 1 (57 @(! - , !&!!! 5;4 8=5 (55 1G78 . 4 '8 4 7; ;488= '8 4G78 '5 2 =5'(
54 1 @4 . 8 . - ?4 67= '5< (!) 4 8445 '=5'8 ''!1A (5578 @ '1 78 '6?'; (4 '(1 (5571 @ '171 4 5
GU 45 78Y '5! 4 (5571 A (4; = 1 !, !
rBZ C 4;'= 87; ;488; 75] (2278 4 %=278'(=78 2 1 @! 899' (55= 84 (8 ;= 5! , (55'8 , 1458' : ! !

BK " ' !
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1 -' 1## # ' ###8 #2 ## ' < J' FD)' $+w2#F ' +# F F ' I#J +# -8' G8- F ' '
F# '< 1# 2J # ' ! J8J '?y28 -F1'0U H V;' + J ' 8< 8' #J8 F '<+w2# +F '
U4< .7L ' P7':P4; '8' ;= 1' @ 2! 8G8' # 8 #w ' J + ' 2 #8 -8-' F #
' 9 2 ' !' #### JJ I ## J8J#E# ' 8 GF-' 2 F-' 1#2# -' / 8+GF-##
#G+ +F ' E8 #F ' JF ' - + G8' 2 #0'
8 -#F ' $+ X# F-' E8# E8' F-' 1F# '
F E# BA _ ' ,_.Y

A. 92' 5 ' ' U ' ' ' # ' ' 4' , ' !' 4' 4' 4' 4

4789' ! F' !' 4 @87@!C

W(8' '& <'!8!' ! !
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A.B' * 2 # '& !' A' ' ' ' ' # ' ' ' ' ' '
, ' % ' ' !' / ' ' ; !' # ' ' ? ' ' '
' ' ' ' p , ' " " ' ' ' ' K '
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A.B' 9 ' W+ ' J!' !' J!' !' 5 ' ' ' ' ' U ' ' '
' !' % ' ' ' " ' T ' ' !' ,_CY

BZ-C' = 1(;78' ` @1 ' ?'; 78' (:' !' 2 =52(' 4 ' \ (?('@ =;72' 67'(' 2 =5'=8'@ =;72'49' O':4 5'(' '5' (5&'
5'(1'(:4 ' ' 7 ' '5< (' (55!' ,- ' 4 ' 85@ (' 5!'-Z!' @ (42'71' # ' 488'' ;=5 (' .4 41' '@8= 71' R5 78'7 ('
2:71 '6741 ' ;7 (' '5 45 "' ;2(?4' ' (' @ ' ('' ! !' ,- ' 7 ' 3';' 5z (' ' 4 5(;378 ' 5=5' (55=' ,-Z ' 7 ' 87='
8L8 41 ("';=58''2458' 72' 2(34 478!' ! 5 78'=' 87;;4 8'' . #- ' . - ' 4' .7? ';'= 71' <(1'2'(' @=8 41(8'
67=' 4 5(5 4' (1(5'(' 4 4 8(' 5((= !' %'?4' '5< (' (55!' ,- ' 4 ' !
N' (@5'1' (4674'(;' :5?71' 5;=2(8' 49' O':4 5'(' = =8' '5?';(' 2'5 7(' ;=1 175'8' 4 ' 5= ' '(4' 4 788'88'1(4'
U G'';"4 ' =8''" K' 45('(' 5872(' (4674'(;' O':4 5'(' (' ;= = 71' 45 ':58' 3(:' ('' Q) (55'(1' O':4 5'(4'
(?G5?';(' =241(458' 249(5? '548 '4?'' 4 ''!' %'?4' @27 ('?X' (55'('5:" '5< ('?4' @ '1'8' (55'(4' @'8;=@'8!
BZ C' =?';71'5714 " 1(57458'71'''5@4 ''('; 7@ "' 24 55 5 !' (145' 2(34 478' 49' =?';4' 87='567')'
A'. #- ' . - ' <'2'(8' =4;('' 4' .7? ';'= 71' <z1'2'(!' . 49' 2 =5'(4' 99 ' (55'8!' =8 41(8' .4 71' 2 =5'(4
(@7?' (1(5'(1!) =' 4 5(5 4' 2''258' 2=5"' # ' =1=5'(4' =:'' ' (55=' , ' 7"' 85;;488'' = 1(;(8' '<p2'78'
K' 4 '@=8' 471' '(;358' (78& 4 49' 54@=8' 4 5(5 4' # ' .4 4' O':4 ('(8!Q' @!' -,!' %'?4' 87@ (' (5571' ,- !
5 4 '=:' 71' 45 58'" 2:" 4 ' 4 571' 4 78'" = :(' ' 4 5(;378' 5 4 4 571' @=54 4' '?4 7 ' (55= 71' , '
4 '?4'5?4' 4" 4 571' ':''' ' (55= 5 1Z- ' '5;'@'45 '71' (:' (55=' !' ,- ' 67=?' 1'1411' 4<'';'' (55= 71' 3 '8 "
,M' 65':78' 8 (5 ':78' ?4875 ' (?354' ?7=' (55" 7 ' (?' 4 8'=541' (1(5'(4' @4 4'''(578' !' (674' <(45?71'
48 ' 4 = 41'' 4@8'884' '5' 5714 '8' =?';71 ' 674 5' 41(5?(4' =; '? ':78' 2':45 4 '@4 1' '1 78!' !J
BZZC' (?41'3(:45 ' O'4 =5L178' 4?(' 4 ' ('58' 48:L 4 ' .=1(5(8' ! !, ' '5' '(2= =' ;71' =;2=' =5S
(o'8 (' (@7?' 784:!' O'8 !' !, ' ;!' ,- ' 57@2' '78' ?4' Z' :'8' (8'2';'8G' 4 ' '(5;3'5" (8<!' (?' =5 '<';!' @' !Z,!
BZ C' 5 4 (151' =;;'8" 875 ' ! !&,- ' BG79 (' 4?!' ,- C' 1@4 '" 4 '= ' 67(7= ' 1458':78' '5;4@ =!' ! 1'2'(5=

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(9)I D)' 22 ' @-' ' m#8 #d 0 ~ ,' X<F2-# ' 2 #8 -# ' 8X' # 8+ # ' # '
9' U #D)J ' d' c2#?' , ' ,~f / 1 ' # '<8+' " + JF ' 8< 8 ' #
2<E## ' 9)' m ' 8F#U ' 2 ' O' G O, ! J8 F '<+ 82# +F #' 8G8 ' # 8+ # -' SF#
#E8 ' E#J F-' 8- ' U G ' SF# ' 2 #8 -8-'
2 G8' 28G I#

," ' / ' ' K ,T ' " ' ' !
9 ' U! U ' ' ' $w (' ,' ' # ' ' !' 4' 4' 4
, 8-' a' # F F+ Y' 4' 4' 4' 4
9 ' U ! U ' ' ' ' / ' ' ' + ' K G'
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9 ' # ' .)4')' 822 #-' FJ < F)#J _
<2X)hH 8 ' J' 2z 8' # 8' 128JHJD) <8
D)' 8 <#)J ' _' F#2' < F)#J ' F# ' , '
<#< ' ' ' D)8 ' < < F ' 2 ' ' D)8 F< J'
Om$# J ' 4F# H#' J' ?<8# 2# ' I28EJ J D)#<
' F ' 28 F< D) FD)# J8 J ' 8<' I ' <#<
9)< ' < J' i ' 9 D)' <h< D)' 82<# '
JW ' F< <D)# _ F D)# ' _' J < ' JD)<F ' D)<<
J#<

9 2 ' 4 !' < D)J ' F ' J8J ' J ' ' 8J' O'
28#J8DDJ ' #D)' D)#<J' < 28D) D) '
J DD DD <DDJD) ' ' <D) # ' 2 ' <# d'
E' <# d<D)' < ' ' <J dD)< < ' d< d '
' 1;2E82J# ' h< d# ' ' #DD#< 8<8 ' < D)J

9 2' ' 18+# 2 @ 8E8-' 822 G##' 1#22#
+ J#' 8 ' JJ#-# ' ! 8E 8#' 1#22#' 2 # O' 1#2##
FE#T#-' 8 +#a ' ,C Y' 8 ' JF2F-' + J#
1#2##' #' J 1+ J F-' <8+' 8 GF-#F '
1#2#F ' / # JH#' #2 +#-' 1#2##' / 8E2# #E##'
FE#T#-' G #' F E8' E#J F-' 8- ' 8 GF-#F-'
- a' # J#-' $ - 8 ' G8--#' + O'
JF-' #I' <+ 82# ' J + ' &8-# -' JF ' 8X# F'
<+ -<8+ ' # ' # ' J -SF8' 8X<F2-# ' 8'
+8G# 8' #-
'-8SF8 8' + JF-' 8< - F #'
8 F+ ' <+a2# +F+ ' [' <FE' 28* # '
E#8' + #-' EH 8+8 8' ! 2 F#-' --8' # '
G F+8' 8UF-' /' I82' & 8 8-' # I#-# #28-'
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' @=8 4(' 4 '=' 14584' 87:'(4' 1 @4 (= '<(; 78' 48 ' %(24 '(558' '5' ';=' .=184' (' 45(7'] (22'45''8' '5@!' 999'' '
(55'8' %' 7 =@!' '9' =8'1!' ! !
BZMC' 4 4' K' '5' 4 ';= Q' 7 =@!' !M!' =8'1!' ! !
*' U C' :' 3=;' 5?';4' ' 4 48' 4 4 48' O':4 5'84' '5' 4 58 '8' =?';':58' '5 ' 72(5 7 ' '7 ' '5' =?';4' 4 4 4
!' 41: (5' 6741' :7'4' = 458" ':2'= 34;T '%' ''5;2' ''8' , # 'G ! 3 " "' 2' 4 '8 ' (;' ; 7?' '=54' 8@4; (&
'88'158 ' ?=5=' ?4?' '7 ' '5' ((2= =' 5=8 =' (578; '@ = 71' =V4=8'75 ' =1!' ' @!' , -&&,M !

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\ + JF-' ' <+w- # # ' 1#E8 ' <+w- #G##-'
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i i ` + +8F-' #1 8 -#-'+8G I# ' 8X' # 8+ #w'
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' A' ,CBY' ' ' , : F 8E ' 8X' 8J2 ' # F F+ Y

9 ' 9 ' !' 9 ' !' D)#<<<8' 2#<8 JH) <' < ' + +8F-' ## 8 -#-' G8--# '-8< 8 ' <+w2# '
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A C' 9 ' " !' 9 ' " !' 9 ' !' 5 ' ' , ' '
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B C' #4('5 78' 49' 65' : 78?((' (1'5' : 78' O' : 4 5' ; '8' '56''' ' = 1 (;5 (' 3 '8 "' <'?41' 3=;' 41@= 4' 878;4@'884'
(55'8' '" (5 4' = : ' 7 (' '?4=674' 7'?7 (' =?'71' ;=5<2('884!' =5845 ' '] (!' 7;'78 ' @!'Z ' N' 4 ' 67'?41' ('2(&'
?'78' 4 ' (';'78' (?' ;= =8' '5' \ '"'8\75 '4 ;?45\48' 1'88"<74 4 ' G79 (' '=8@4 5 1 ' (';'=' ;=A 5 1 !' %'?4' '5< ('
(55!' ' 4 72Y(578' (5 4' 3A;' 41@= (' 8; '@8' ' (55=' , , ' K' ' (''5'(5 1' '5(; ;488(' . = 1 (5'8' 2=;(' 3 '8 ='
K' 87 : ?' (!Q' ? !' 7?A=8' ;!' Z!' %'?4' '5< (' (55!' ZM! ' ' ;=5 (' 5((('87@ (' @(!' ' = 1 (;7 1' 754' 35'&'
451' <7'884' '5?' ; (5 !' 5' 5(('=54' '8 (' 5714 " ;= 7@ H' 24 75 7 ' 84?' 3'8 = '(' 4(?41' 84 (7 ' 49' (5 '67'8'
8;34?'8' ' : '88'= 71 ' 4 ' = 1 (;" (8842458'8' (' %' ('8 '8!' 4' = 1 (;" . 42' '=54' '?4' '5< (' @(!' - !
B ,C' 5 4 ' = 1 (;71' 4 ' (: 471' %' ('8 ' '] ('(558' 7;'78 ' 2(34 478 ' 4 '@24 '674 ' 451' =41 (5=' 4 '
4 ';'8' . 4 71' ((2= '8 ' @=575 ' ;3('71'] =55(' . 4 41' O' : 4 5'A' (55=' 75=!' ' 4 5(;3 8' 65=8?(1' . 4 48'
= 1 'p2' ' 67" 5=5' 24 ' ' 1 =' = ?'54 ' 84?' " 4 ' (55'8' 24 5(4 75 !
B C' K'] (22'4578' ('5' ;2(=' 4"G7?' ;'=' 4 ' 78!Q' 4?!' ?4' 49' A (' @(!' , !' 784 : !' O '8 ' !Z ' ;!' ' 4 ' !
B C' (?41' 3(: 4 ' 49' ;=A '8' ; '@ = ' : 78' 4?(' ?4' 49' A (!' 4 ' O= 1 '2!' '5' (;71 ' ;!' !
B -C' 714 " : =5;2= ';" 4145?(5?" 855 ' G79 (' (4 ;5271 ' 3'8' 57(2' : 78' @ A1'8871 ' 4 ' G59 (' (55=8'
1@4 (= 7 (!' '171' (: 4" (5571' 4<4 ' 2(34 !' (?' (55!' !' ,ZM ' @!' !
B C' ; ;'878' 48 '] (22'4578' (55=' A A' ;= 1 !' , ' @=8 67(1' 1@4 (884 ' ;71' d 4' (55'8' Z ' 4 ' 8=278' (55 ' '
7 ' '5' 4 : 42Y=' =227;4 ' ?4' 999' L (55'8 ' '5'] (22'45'8!' ; ;'878' 48 ' 8'1 72' < (4 ' 4G78' %(24 '(5=8 ' (55=' '4 A'
;= 5!' , ' 67=' 85 ;4488' ' 4" 2(7?'78' 2 1 @!' 999''' ' (55=' , ' 1458!' '9!

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9 ' !')## # ' HF ' # # 8 8' h8J 22 JF ' ' A2#J28D) JH' !' #7F# ' I 8 ' w' ' # DDJDD# 2#' #< 1Z8 ' ' ' ' >FD)# ## ' 8F#1#9D- ' J' 2JH0' 1#8E' # 1#' 9 ' ` ' #### JJ XXX

/ # F-' G8 8#8' ; -J #F- ' E8J 22 F-' 8- ' ' J#8 JH ' 1#2# ' &F E+8 ## ' 8 ' ' 1#2##-' U) 8 EF ' 8' #G #8 -# F-' 8 +#w ' <FE' ; EF ' +8 ' E' 12 8 ' #

9 2 ' [' 18+# ' ; ' ' ## JJ XXX , CLY

B ZC' G78?41' '(2= " 141'7'' !' O'4 =5!'?4' ; '@ = ':78'4' 4?(' ?4' 49' (4 (!' 4 ' 4=5 '78' L (5 !' '5' ! ' ;=5 (' 48 = ' 1) ':2'= 2'!' !' =1 !' ,!

B C'] (22'45=' =; ;'8=' } ! !, ' 87; ;488' ' 2(7?'78' ;' ' 4 ' 'J' / ! % ' (55" '8 '78 ' 4 ' =:'' ' '5475 4' (55=' ,Z ' 67=' 87; ;488' ' 4" x K ' 67" @ 8 ' ' ?'48' =; ;'858' 48) 4'5?4' 5 42'(578!

B MC' 5' 4 (1' . ' @=;3(1 ' G5U (' 67= 67= ' 41 (545 ' 4 4 71' ; '@ (' 6741' (545' ;71' !' (';'=' ;=22=6745 41' '5 75 ' 49455 4' (4;72= ' ;(1'5(' '88'5=' <(28=' (?8; 2@ (' (' 4;45 '= ':58!' 58@';'(5 ' ?;1''1' ' 4 5(;3" =?';41' =?24'(551 ' . (V2'58=5' ' <=2!' - '$' ;=2!' , ' 2'5!' -!

'5578' 5:3(2" <'2'58' 4 ' (145' O':4 5';51' ?4' 4=' 4 ' ;(54' %45(R;=' 4G58' 141= (5 5 ' '5' %' (' 67'5 (' =271 :(4' '5' '(?4 ' @(!' M ' 4 ' =2 (578' '5' 5= (' ,M ' (?' 2=;51' '8 71' '567') K' O';' O4 =8' ;424: ((0'5'1'8' <(184' '5 4 ' 87=8 ' 2= 7' ' 41@= 4' = :1(;" .4 '8 ' ;' ;(' (5571' , !Q' '?!' @(!' M' 5= !' ,M!

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-8' + 2 G#J 8' E8' 7 ' * # ' 8 ' * ' $ 8 8' 8 < +# F-' 2c GF ' 8 ' JH + J 8+# F-' # 8+ #J#-' I#' - +#' + #' -J #< -8' # ' X8 <2 +#' ! 8 -8' ; J F2 +##' # 8+ #J#' ' 28+##' 8 ' E8-J+#< -' 8X' I8 8+8' E#J8' 7 , ' E#J ' # + ' !2#G # ' ' --8+#

< F# D#' F#) F#+ ' c!' -H8 ' ' D) <F ' J+ #JH8 #2' ' 2 ' JJ XXX I# .< # F8' ' # -H8 ' 8 ' q<# ' 8' F 0' H #22 ' ' <8#JH' JH8 22' ' 2 ' < ' <8' q$# ' JH8 22' ' 2 ' JJ 2XX### ' ' J ' < ' H#' ' H' JH #<' XXX I ##' 2 ' h' # ' F<' # ' F' h ' ?<# ' ' JH #<' ' HF ' ' F<' < # H ' F' <# 8' F 8' U ; 2 #< ' ' ?)2 < ' h ' X# I' 2 ' ' JHF# ' <' 2F H ' F' JHF H # H' " '<# ' F<' < ' ' H8JH' ' 2 ' ,' #<' ' J ' < ' < <' _' F<' <# ' <8# ' ' H8#JH' ' 2 ' #' F' ' ' ' _' X##' <<' X###' 2 ' ' F' 0U# 8' ' JH #<' ' ' _' ' ' < <' < ' 8 ' ?)<# ' J ' JJ XX### ' _' ' 8JJ' J ' JJ 2XXX# I' ' ' #<' X#' 2

?<# ' 8' F H #22' h ' в - ' -(' JJ 2XXX# I <- <' 8' #<<# ' ' J JH' c2#JH28 ' JJ XJ I# ' XX I' 2 ' #<' ' J ' < ' TJJ' ' ' 8 ' J ' JJ 2XX# #<# ' >>' 2# h' ' #<' ' J ' < ' H8 ' ' ' <8#JH ' J ' JJ 2# ' $" A' ' yy!(

' 8' F H #2' ' ' -H 8hH ' J

/ ' 8< -' # ' F-' 8- ' <+ JFc' Eo # ' F ' J#+J# 8+' A K " + 8 ' 1#2# ' 8UF- ' FX +' / # #' 1#2##' F 0' H 22# ' ' 8- ' F ' J#+J# 8+' A . K @ +# # ' UF J ' JF ' / # ' F ' J#+J# 8+' A_ ' SF ' 8 < +8' < 8+' 8U<-' + JF-' #G# ' F ' w #-' _' # SF8' / # F-' - 8' <+ I8J # +' 1F8+# ' SF S' + JF-' < 8+ ' X +#-' -Fw' , " + # w Y' -# ' 2# 8+ ' - 2 8+ ' " 22F-' 1#2#F-' + #' 1F# ' -8 # +' #-' KB' SF ' / # F- ' < + F# ' # SF8' / # F ' H#f' < -# #- ' F ' w #-' . ' #G#--8 ' 8 < +8' SF ' " + F# ' EFX# ' X +8 ' 8 ' 8 # ' -#J ' < + F# ' 8F ' #-' . ' <+ I8J # +8 ' 8--8' " 22 ' 8 ' A' I 82' ' #-' -8 # +8 ' + J ' < +8> X +#-' -Fw ' FX ' H -' + # 8-' F-' 8- ' 7 ' ' / ' $T y# ' 7 # (' !' % ! + ' 8 ' ## ' & ' ACB ' w #-' K 7 ' 1#2#F-' F H 2#' ## ' ' ACB

-G +' 1#1#F-' #--# #' , $ 8 wY' JJF F# ' # ' <+w2# ' " F+ ' #E8' ' ALK ' w #-' A . ' F-' 8- ' # SF8' ' A_ #--# F-' A ' w #-' F ' #G# ' 8 < +8' SFh' -G +' F-' 8- ' J' <+ # E8' F-' 8- ' --# F- ' & ' A . ' 82' < #F-' ABB

'5578' 5(78' 48' ! !' , , ' '? 48' (55=

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2F X2 2 # < 8 B1) U ; 2 U E #
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B < - <+ 2# #28 a SF E # #F
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: F E -# I8+F # / # F- #- - 2 8+
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LA E I8+#- #28 I#E8 F+ @
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FX + 8UF- 1#2# + J# 8 <+ U 8+8 #-
B UF # +8 " 1#2# + # a1
- 2# -F
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8- F J#+J# 8+) #E 8- 8+ # I82
SF + < - JF @
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SF8 E -8 c- F <8+I8
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5 ! / / !
< E8J8 E J JJ XJ#I)
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5 # / * 2 / !
JF- SF# ## ALB 0 1#2#F- 1F#
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#D) ' D' 8 ' D) ' JJ I ## ' _ ' c! <2# 1D) H D) 4 JJ XX I ## ' ' 4

U#8#) ' # 0 8#< , ' -8 ' D) ' JJ XX#X ' _ F< ' <# ' < <2#8## < # 8E# D) # F) E#< ' < #+F) J F ' F22#2#

-2#E## , 8 2# 2 9 ' 2F# ' _ ' D) D) Y ' J J ' ? ### <8 <D) J D) ' JJ XXX I ## ' _ ' ' 8# ' J 8 22 ' 2 ' ' JJ X#I

H 2# ' 8 ' J# J 8 22 ' 2 ' ' 8X #+ # ' 8 H ' _ ' 2# 22 ' E#F+ # ' 8 ' JJ X#X?

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G ' 1#2 - 2#22# 2 ' 8 ' ! -8 ' # 8+0 1F# ' <+ 82# ' # 18 + 8 -# ' ' A _ ' 8 ' F- ' 8- ' F ' J#+J# 8+ ' A B

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e ' ' ' 7 ' / " !

+ HF+F- ' > #JF- ' ' 2#22F- ' $ 8 '

8E#F- ' 1#2#F- ' FG E## +F +#- ' J#+JF2#- '

' +8- ' + 8# ' ,SF +1 ' F F- ' 1F# '

' # F- ' ' 8E Y@) G ' ,-# I 8 F2 + ' : F8+JFF Y &+F#E ' / # JH ' + E#F- ' FG E#F- ' 1#2#F- ' # ' / +G ' 8X ' J## ' <+# F- ' E# + ' F #0 8 # ' / i @ 8# 8F- ' +# ' FG E G ' +8- ' / 8+GF-## ' 8+ 8- ' G # ' G+F F- ' &+F#E ' / # JHF- ' F228 H ' E?G &+F#E ' I F- ' / # # ' NJ

O U ' (' 4 5(;2'= '9 ?'8845 '7'' ' 54 '9 67'?41 ' 67'('8; 4@(''2'(;=58 ' ' (5 7 1 ' '5 (55=5'1 57'54I'8 ?4@ (('8 ' 5=5 (7 4 1 ' '5 L543 =5'8 1 '8 ' (7 ' 454(2= ';'8 ('=5':78 ' 7:';75'674 (' ' 4 5(;2'= 141= ('' '' !) ? 48 4(8?45 8@4; (5 ' 846745 '(! 5=8 1 (55 ' ''8?41 ' ;2'((; 4 ':78 8; '@ (' '5 1 ('54 4!>45'@2('i ' =E458'8 L 'T ' @! Z!

c228 < ' hF 2J ' 8 q<#<1# #<JJ2# 8 # ' F< 8JJ ?m< ' 8 F 2# #22 ' 2 ' <# ' 8JJ J2# #< <8 2#<8 JH #< _ ' F#8 <# ' F ' # <F< J# JH8 22 ' 2 ' ' JJ XJ I# ' <J < 8 #<# ' ' # < ' ' 2 ' < ' ' #< ' <8JH8 2 ' ' <#JH#J @ 2< '

' E#J8 &FE28# 8 / #+ #- ' # I 8 # ' / # F ' 1#2#F ' F# H 22# ##--8 ' 8 # F ' + +8# #1#8 J + 8G#- ' # 8+ # 8 ' SF# JJ#-F- ' 8- ' <+ JF2 EF # ' # ' J#+J# 8+ ' ALK ' -J +F- ' 1#2#F- ' #--# # JJ#-F- ' 8- ' ' 8 E8 ' 8 #- ' -F#8 A_

" ' ! -

2'45' (5';34bU22';;!92' !' N I ' G ' 3455' ;;!99 ' bU "':34;3' 5'7' ' F@ ' ?'=' L45' G'4' oJ 2'bU' '3bU' ' =<':' #U;' 7 ' ''' '5' Z':=446p: ' bU" 99 ":2!' ":'bU Z' 57<" <'5' ::4;3' -=22' ' DZ = 5bU - ' :2!' 5" :7' <'554' 5bU F@ '5!

#--# #-' F-' 8-' F ' J#+J# 8+' ABB' /# F-' F-' 8-' 'AA ' 8 ' # ' 8--8' -8SF8' G+ E 8IF-' J' ! J8+' 8UF-' + O' JF-' 8< -' #' 8' ##--8' < + 8+8' ' 8 #-'_K' SF8'UFX 'H -' + # 8-' " 22F-'##2#F-' #' 8--8' #-'. ' -8 # +' /#

w' w' 8X' E#J8' !2#GF # ' /#+ #--# +F ' 2 FE ' ' -?-8+#' 8' 2##-' ++ # J ' #G8+ JH#' J 1#+ 'SF E' +8-'<+wJ#<F -' 8 -#' # ' F 8+#-' + ' < # ' E#-J+8< +8' # I8 # ## F+

& ' 2' " !' "

' 8 ' 28I# 8+' H J' 8+# ' #G# F-' -F<+ ' # ' 'C ' < G' BC' F #' E8' !8J8--F' #+ #2#' <FE' 8 +# ' JFUF-' 8 # #' #G8+ JHF-' # ' 8G ' + J#' -F<+ ' < G' BB @ :F F +' G#- +#' +8 ' 8 E8 '##-E8 '18+8' I8+ #-' 8 + ' SF# F-' #G8+ JH' # 8 SF8' "+ # F-' FJ#F-' < G'_ ' 8 ' /2 H8+ 8F-' -#J@M' &# 2 G#F-' ##' # EH' M' 1#2#F-' H#+##' 8G#-' # 8+ #w' 8< -' 8X' G8 #w' 8 +8 -8' <FE' / ' ' M' 5T R ' # #' 18+# 8' E + F-' XXX' 8G# -' <F822 -' JF ' ' J#22#-' 1 F2 # F-' M' E' F F ' # 8 8J# 8' E828I# ' :F J#+J ' + JF-' 8X' A ' G8 #w' & - -' ' J -J# -' + 8' <28X# Q' < G' .' "+ # F-' FJ#F-' !8J8 --F ' #- F ' 2 JF '1F#--8' <+ <8' 8 +# ' # SF#' M' SF 'K >

!F UF G#' /2 H8+ 8F-' <' B ' + JF '< - 8 ' M' E#J ' -J8< + ' <+ <8' 8 +# ' M' <FE' ' 8 ' 8J#E#' 28E#D)# ' ' 1 +8 -#' - +8<# ' +8 ' HT +#Jw' I# ^' # ## ' M' # J F#--8' J' U8J #-' E 2#-' &8F ' SF#' 18J# ' # ' + E# ' E + --8 Q

' # SF# ' + JF ' # ' H+#- F ' J+8E#E#--8' -8E' ' &+F#E +F ' ! J+#1#J##-' H +O' +8 8 ' -8J8--#--8' :F E JF SF8' HwJ' -# ' 1F8+\' J8+ 8' # ' " 22# ' F-SF8' E' !wJ##2F ' ; ' SF#' &+F#E +F ' 82#G# 8 ' E# ' H 8 8-' &+ E -' 8 ' F2#8+8-' E8' 1F F+#-' J -F28 ' F #' ' ! 2 -#F-' # ' #-' E' <+#E#F ' 8 ' FSF8 F-' # ' 2 ' 8+F ' " 22#J ' M' &+ E8-' # SF#' ! 2 -#F-' 8+ ' " 22#J w' F2#8+8-' M' 1 #E#Jw QI8 ' # 8+F ' ++ ' 8X' <+#E# ' +8-< -# 8' 1 # 8' &+F#Ew' E' SFw-1# 8 ' 28X E+#' !8I8+#' <8+ +#-' SF#' 8 ' J -F28 ' # ' M' # #--# w' I#E8 F+' 1F#--8' M' #- w' " 22#J w' &+ E8-' F ' SFw' J -F28+8 F+' # ' +8 F-' EF ##-' ' -8JF-' SF8' 2# ' M' "+ JF2 ' &82<H#J Q' <FE' FSF8' #- +#8 -' E8-' " F28-' ' < G' . C

E8 ' 8X' ; <#-J @M' &#J8 ' ,&# J28 # F-Y' SF E ' 8 < +8' F+82# F ' " 22#J F^') -F2F#--8' &+F#E -';# ' <' .B ' E' HF 8' 8 # ' 2 JF ' ! 2 -#F-' # SF#' M J - '

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Mʻ ʻ2FJ#-ʻ8ʻ-#2I#-ʻ#ʻSF# F-ʻ<2F+# F ʻ"4 8(:(5 7 !II

$2F+ʻ Eʻ 8 E8 ʻ +8o#ʻ <8+ # 8 #ʻ JJF++F ʻ # #E8 ʻ 02ʻ<ʻ. Cʻ.B ʻ.BBʻ 8ʻ#ʻ
+ <+#E#ʻ Eʻ ʻ ʻA .ʻ# ʻFʻJ U#J8+8ʻ2#J8 ʻ ;#+G# 8-ʻ 8G# -ʻ ʻ #G8+ JH ʻ 8 0ʻ
+ -ʻ8ʻ#ʻ!8J8--Fʻ #+ #2#ʻ<+ <8ʻ 8 +# ʻ JJ#- -ʻ8UF-E8 ʻG8 8+#-ʻ 1F#--8ʻ 1 #E#J +F ʻ
SFwʻ E8ʻ 1F F+#-ʻ J -F28 F+ʻ 18+ʻ J# #ʻ 28-ʻ Bʻ ʻXXXʻ JF ʻ + 8+##ʻ
#-ʻ8ʻJ#F ʻ FJH8+##ʻ 82G#ʻ ʻ ʻIʻJʻ

Xʻ ʻ #G8 JH#ʻ J 8X ʻ #18- F ʻ8-ʻ &+F#E -ʻ 1F#--8ʻ + J ʻ H - #28-ʻ Jʻ
<+ # E8ʻ !8J8--F ʻ #+ #28 ʻ 8 +#wʻ ʻ1F#--8ʻ &+F#E#J ʻ<+ <+#8ʻ E#J + ʻ -8Eʻ " w0ʻ
J8F ʻ;#+G# F ʻ 1 + 8ʻ ! J+ +F ʻ SFwʻ #G 8 ʻ - J+F ʻ 1 I8 ʻ8ʻ1 #E#Jwʻ 8+ ʻ F #ʻ
&+ E8-ʻ " 22#J wʻ w- +ʻ ++ ʻ#ʻ 822 ʻ " 22#J ʻ ʻI#ʻ &+F#E +F ʻ &#-J#<2# +ʻ#ʻ
+# #ʻ+8<8+ ʻ :F ʻ# G#-ʻ + ʻ ʻ<8 8 + ʻ Eʻ JJ#E8 8 ʻ8ʻ G#-ʻ
82#G#ʻ #- ʻ I#G8 ʻ F ʻ < 8ʻ8Xʻ J# #ʻ 2# F-ʻ E8ʻ ʻ -F2 ʻ B @ ! ʻ
Mʻ<+ ʻ 2# +8ʻ E#I8+-ʻ J#8-ʻ E8 -ʻ + #-ʻ Ic+#-SF8ʻ# 8+JF+- # F-ʻ 18 # #-ʻ#ʻ EF ʻ
Mʻ1F+# +F ʻ SFwʻ I8- 8ʻ 18+ 2#ʻ J+# # F-ʻ E8U8J #-ʻ ʻ2 , !ʻ &+F#EwSF8ʻ J#+JF
Mʻ<+wJ8-ʻE#+ -ʻ -F 2 #-ʻ EʻJ 2F ʻ # F-ʻ 1F E8 8-ʻ N J $+w-#E#F ʻ< - H J
Mʻ# < -# F ʻ I#J #-ʻ8XJ#-#SF8ʻ2FJ#ʻ-wI#-ʻ-F<8+- # # # F-ʻ - J+#ʻ ʻJ+F +8ʻJ < #I ʻ E 28+8ʻ
66 + -ʻ8ʻH # F ʻ1# +#-ʻJ -F28+8ʻ&8 -ʻ1 -ʻH 8 Q

!8EʻFʻE#X#ʻ8Xʻ ʻ #G8+= JH#ʻJ 8X Fʻ< 8 ʻ &+F#E -ʻ 1F#--8ʻ + J ʻ # 18 - -ʻ Jʻ
<+ # E8ʻ;#+G# 8-ʻ#ʻ!8J8--Fʻ #+ #2#ʻ 8 +8 -8ʻ + J ʻ+8G 8ʻ E8G8 8-ʻ ʻ1F#--ʻ
<+ <+#8ʻ &+F#E -ʻ ʻ 822 ʻ #8 -8ʻ &+F#E -ʻ -8-8ʻ + J ʻ << -F#--8ʻ< 8ʻ8Xʻ
!JH8E#-ʻ + J#ʻ TG#-ʻE81F J #ʻ ʻC Lʻ8XʻSF# -ʻ-8SF8 #ʻ8XJ8+<-#ʻ/2 H8+ 8F-@

Mʻ /# JHF-ʻ 1)F#228JD) ʻ #ʻ8ʻ F-0I8+ 8X ʻ ʻ< +#-ʻ, ʻAK ʻE81F J #Yʻ? 8ʻ $ +8#ʻ
8XJ8--F ʻ 8Xʻ #wʻ + JF ʻ+8 + G+8E#ʻ 8ʻ Eʻ E ʻ+8- +J#8 E ʻ< J F ʻ# #+8ʻ
J 8G# ʻ ʻH Jʻ 822 ʻJ2 +F#ʻ1_ <FJH#F1ʻ1#2#F-ʻ!8 EF ##ʻ8ʻ9#8++ G#ʻ F JH+ ʻ#ʻ # ʻ
- F-ʻE8ʻ&+F#E +F ʻ G8 8+8ʻ SF#ʻ G#J#-ʻ + # F-ʻ ʻq)#+#JHʻ 8+F#ʻ-# #ʻ8ʻ-8 # #ʻ EF -ʻ
+#J8 +# -ʻ H E#8ʻ JH# +F ʻ8ʻ E +ʻE#J -ʻ 8++ -ʻ #ʻ +J G#8 -8ʻ E#- +#J Fʻ
qm<8<D)0I_ F#.H0qm<8 8ʻ <<822 -ʻ^ 8ʻJ + 8 8ʻ?)8<+ #Qʻ <)ʻ .

&8ʻ + J#ʻ +# F-ʻ " -##-ʻ 8 +8 -# F-ʻ 8ʻE8ʻ 8 +#wʻ G #1#J8 # ʻ 8X ʻ
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ʻC ʻ#ʻ '&FI8G #ʻ E#J8ʻ1 2ʻ C.ʻ#ʻ 228G#ʻ&F 2# #8 -8ʻSF Eʻ# J#<#ʻMʻ 8D) HD##<ʻ
Mʻ ;ʻm2# Hʻ U2 JHʻ <# 9)#JQʻ !8EʻI8+8 +ʻ 8ʻ # #F ʻ <H1#J F

&8 #SF8ʻ E#ʻ -F ʻ F 8+#ʻ J ++F< #ʻ # ʻ #G8+ JH#ʻ ++ # 8ʻ +#G# ʻ 8 # ʻ
;#+G# 8-ʻH 8 8-ʻSFwSF8ʻ ʻ1 F2 8-ʻ F 8+F ʻ811#J8+8 ʻ ʻ ʻ;#+G# F ʻFʻ# #ʻ
-8EʻL ʻ SF8ʻ<+ʻXXXʻ1 F2 8-ʻ # 8X F ʻ+8< 8 Ewʻ -F ʻXʻ1 F2 8-ʻ SFwʻ 1 + 8ʻ
2 8+ #-ʻI#J# F-ʻI#G#2 H ʻ #G 8 ʻ ! J+F ʻ JF- E#8 8-ʻ 2# SF8ʻ 11#J##ʻ -F#ʻ F=8+ ʻ E0ʻ
<28 8-ʻ ʻ F F 2#ʻwSF# J ʻ Eʻ;8+ 28 ʻ 8X F-ʻ F22 ʻ 2#ʻ E ʻ8X<2#J +#ʻ< --8ʻ
I#E8 F+ʻ ;#E8ʻ 8+ʻ # ʻ ʻ#ʻ#ʻ E#J# F-ʻI J# F-ʻ) ʻ8ʻ; !

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' ,@ ^ !

90' " !' + ' E ' ' ' ' / ' , ' # 'E ' G' ww'
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9t' / ' , ' ' ' / ' ' ' # ' 'xx!BM C
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BM C' (;' 78' 1@!' %' '5@4 (' '1458!' - ' =:'' ' 14584' ('=' 67=' w';;488' ' 4" < (4 ' 4G78' 2= '(5'78' '9'
1458!' n' ;7" 87;;488' ' =218' 1@4 (= ' 9U;9 ' ' (55'8' ' ' 1!' ' !' =' '8!' '(5;3'5'!' 4 (!' I '?4' 4 !' 248'
?(48 ' (55=' !',Z

BM C' 714 "'5' =?';':78' ('(5 !']457'5(1' 784:'" 24; '=541' 84 (' ' 4 5(;3" =?49' =?2!' .('!' '
<=2!' - ' n ' (674' =:" ,?78!' <'' ' 5 =;345= 71' ;;;!99 ' L '= 71' ;;;;!'' ' (=?';45= 71' ;;;!99' '
?488;5= 71' '' ' 8;(2=5' (71' " 67(5?=' '58(5(' (5';3'8(51' O(4 4!8'8' 4 ''@' ' 7 ' '5' 784:'"
3 =5!' 4 ' '5' 4 ('" (5'1(? !' (?' @'@:(7!' O 1 !' 3) 2 ' 7 ' 5 '=;3(45= ''1' (~ (' '5;'@' ' (:' (55=" 52'"
18('8' 4 '=?" 72'(5(~' &U b(=?';45=5'1' (' 846745 4' (55=' <= (884' (' 4 4) L '= 71' (:' (55=' 4 !'
52'(5 4' - M' (5 4' !' ,-' 67=' L 2' (' ='418=' .4 41' @=8 72(75 ' ?48845=1 1'(:' (55=' !' 4247;'?(71 ' 4 '
8;(2=5' (71' (:' (55=' ' 5 78

BM,C' O';' '584 45?(' 8(1 ' 4 :(' 784:'' ' (3' 1 (574584' =1R88(' K' '58(5(' (5';3(44 71' O 1 48'8' '5' ;=1 17541'
K' 454 '8' '11(5" @(5 ;';1' 41@''\!' 784:!' 3 =5) 4?(' (?' @=;:(8' 784:'" (??' ' ?4' 85=' 7:'2;71'
O4: (';''1 ' 67=?' 49' 4?(' ?48; '@8' ' ' 4 5(;:!

BM N' (8'78' 1@!' 999 '' ' ;71' ''2''8' ('5=' 4 ' 714 '(5=' (55'8' ''!' 4?(!

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AC 9 ˢ " !ˢ / ˢ ˢ K ˢ " ˢ " ˢ ˢ % # !ˢ /

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#U <##8ˢ 2# <8JD) #I#ˢ !ˢ ˢ JD)E#ˢ + +8F-ˢ #21#8 -#-ˢ 8Xˢ # 8+ #-8 ˢ J8J#0ˢ

2#J 28ˢ 2D)ˢ 8 +F)J ˢ 8ˢ #<J #U# ˢ ˢ E# # ˢ <+ 82# ˢ " F+ ˢ JJ#-F-ˢ ˢ ! 8# JH ˢ

+2#D)<J D)# 2#ˢ 88 I ### ˢ , L . Y / #+JH#+ #ˢ E8ˢ / H +E##-ˢ 1#2# ˢ ˢ F E#ˢ

BA . C , LKY

BM Cˢ = : =ˢ 87<<4; 78ˢ (78 ˢ (55=ˢ !ˢ , , ˢ 8 (' 1 ˢ <'2'=8ˢ ('571 ˢ 4 ˢ 714 '(571 ˢ (48(48ˢ ; 4(' ˢ 4 ˢ ;7 (ˢ 714 '(5=ˢ ;=5 (ˢ 4 8(8ˢ 4 45?' ˢ 84?ˢ (?ˢ 48'@:=5 41 ˢ ' ; 7ˢ <721 '5'8ˢ 5 4 '' ˢ (55=ˢ , ˢ 7 (4 '(578ˢ =:'R ˢ @ ˢ 8=;4 ˢ '58'?''8ˢ =@@ 48858 ˢ (55=ˢ , !

BM-Cˢ (: 471 ˢ = 1(;ˢ . 4 '(ˢ <' 7 (ˢ 4 ˢ 87;;488= 41 ˢ (55=ˢ 4 5ˢ Z1=!ˢ 3 '8 ˢ , ˢ '5ˢ @ (42'=ˢ] (7 (5=ˢ =;;'87 (ˢ 5((ˢ 49ˢ %ˢ ('8 = !ˢ 55(2':78 ˢ =2 (578ˢ '5ˢ '(?4Tˢ @! Mˢ 5!ˢ !) ?ˢ 4 45'884ˢ (55=, M ˢ 2(2'4 4ˢ ('=548ˢ 5=5ˢ ?41=58 (5 !ˢ %'?4ˢ = (5?=ˢ ?Xˢ @ (42'=ˢ] (7 (5=ˢ '5< (ˢ @(!ˢ -Z!

BM Cˢ ' 4 ''(;378ˢ 8467' 5 ˢ 4?(5 ?4ˢ 849ˢ 8((ˢ G79 (ˢ 674 (ˢ '8ˢ 75?ˢ (5578 ˢ <''' ˢ 3 '8 ˢ Z ˢ 67=ˢ 4 ˢ '=;24&ˢ 8'(578ˢ ;7 (ˢ 04 ;72'=ˢ (9' ('(5=ˢ 1@4 (' ˢ '?ˢ 48 ˢ ;(4@' ˢ 1@4 (4 ˢ (55'8ˢ 99!ˢ ˢ ;4 51 ˢ 48 ˢ '=;24 R(57 (ˢ ;(4@'884ˢ 1@4 (4ˢ (:ˢ (55=ˢ 4 '4ˢ ;=1!ˢ , !ˢ 7?ˢ . =1(5' ˢ ('5ˢ 4 ˢ 714 '(5ˢ 5=1 '54ˢ ;424 : (ˢ <74 4ˢ (55=ˢ '8 = ˢ @=8 ˢ (ˢ =:' (ˢ N 4 ˢ 714 '(5=ˢ =;;'8=ˢ '=;24 '(558ˢ 1@4 (=Hˢ 424; 78ˢ 48 ˢ 5=5ˢ (2'2':78ˢ '@8'8 ˢ 7 ˢ (2'6''ˢ 845@84 4 ˢ &84?ˢ 49475 4ˢ (55=ˢ , ˢ (ˢ 67=ˢ (55= ˢ 84 (ˢ '=; 4 '(5ˢ '5;(4@' ˢ 67(4ˢ @@8 4(ˢ (:=2' =ˢ 5=1 '54ˢ 4G78 ˢ Kˢ # ˢ + # '# Bˢ ?'4 (ˢ 48 ˢ '5;R@'458ˢ (ˢ 4=145'(ˢ \ ˢ B, Mˢ 7 !Cˢ (55ˢ , !) @ '578ˢ =;;'878ˢ 48 ˢ (55=ˢ , -!

9ˢ :'8ˢ 8467' 7 ˢ @ (42'71 ˢ 0 # ˢ 48 71 ˢ <7'884ˢ '5ˢ 0R:41 '(ˢ (55=ˢ , ˢ 4=8674ˢ =1548 ˢ <24 ˢ ˢ 4; (= 48ˢ 4 (4 ˢ 67ˢ 471 ˢ 42ˢ ;7 (ˢ ˢ ?4<75; =ˢ (55=ˢ !ˢ , ?=!ˢ 42ˢ ;7 (ˢ ˢ #5 ˢ ;=22=6745 41 ˢ 8=15'(75 !

] ('(578ˢ 7;'78ˢ 4; 4ˢ 49ˢ 4 ''8 '8ˢ =?';':58 ˢ 3(4;ˢ :(:4) Jˢ (: 458ˢ . 49ˢ 0':4 5'(4 ˢ 8' 5'8ˢ ;7 (ˢ = 34= :=ˢ Kˢ ;=22('8 ˢ (?ˢ 0 $ # ˢ 5=5ˢ @ =;72ˢ (ˢ 41= '(ˢ 8'5 =2(ˢ ;4 (('54 ˢ ;7 (ˢ - # ˢ '88'5ˢ 2'= ˢ ;=5 48878 ˢ 471 ˢ Kˢ =;;'?' !ˢ 4?ˢ @=8 4(ˢ @7 5^ˢ 84ˢ '1 1 '8;458 ˢ =;;'878ˢ 48 ˢ R@84 Iˢ] (!ˢ 74!ˢ 4?!ˢ - ˢ @(!ˢ Z !

' 4 5(4218ˢ 67'?41 ˢ '=;24 R(5ˢ (5175ˢ @ '1= (ˢ ?'8 '5 7' ˢ 5714 =ˢ <4 '(2ˢ '' ˢ (5551 ˢ '5?';(5 4ˢ 1 ^ˢ ;=1!ˢ , !ˢ 4?ˢ (5 4(ˢ 1=57ˢ ' 4 5(;3ˢ : =5=2= '(1 ˢ (:ˢ 4 45 ':78ˢ 0'8 = '^ˢ . =1(5^ˢ 67=8ˢ 45((ˢ @= '78ˢ 65(1 ˢ (ˢ 5514 '8ˢ <4 '(7'5ˢ (7 '2'8ˢ 4 ˢ ?4@ (('8ˢ 4884ˢ ?48' 5(5?(1!

9ˢ ?'; '8ˢ ?4ˢ @ 12'=ˢ] (7 (5=!ˢ 4 ˢ ?4ˢ '?=ˢ . 4 4ˢ =55(;'^ ˢ (2?4ˢ 858@4; (ˢ :(:4=ˢ 67^ˢ 49ˢ (2''8ˢ =?';':78ˢ ''((5 7 ˢ ?4ˢ 4=?41 ˢ '?=ˢ (ˢ 2(2'4 4= ˢ @(!ˢ ˢ 541@4ˢ)& '?71 ˢ # ˢ ˢ . 4 '8ˢ =55(;'^ˢ 4@= 45' ˢ 4 ˢ @=8 ˢ / - ˢ # ˢ =55(;'^ˢ . 4 41 ˢ @ ^2'=ˢ (@7?ˢ =L&(' ˢ '5ˢ . =8;=1(5'= ˢ (ˢ = 1(;=ˢ '; ''1 ˢ <7'884 ˢ 4 ˢ =55(;'^ˢ '5;'@('Hˢ (ˢ (15=5''8ˢ (582(= ˢ '(1= 51 ˢ = 1(;ˢ < (41ˢ 7 4 '571 ˢ <(4 51 ˢ 4884ˢ . 4 41 ˢ =55(;'^!ˢ 4?ˢ '(5'= =ˢ @(72=ˢ @=8 4(ˢ (:ˢ '?=ˢ '5 4 <4; = ˢ = 1(;71 ˢ (15=5'=8ˢ 4ˢ =55(;'(ˢ 49 4 1'5(884 ˢ 4 ˢ 7 (?'''1 ˢ '((= ˢ < (41 ˢ 4ˢ 85:8 ' 7'884 ˢ 67ˢ '?71 ˢ =;;'?' ˢ 4 ˢ 999ˢ (55=8ˢ '5ˢ =55(;'(ˢ 4 5(' !ˢ 2(2'4 4''8ˢ '@84ˢ <(4 7 ˢ (2':ˢ %# ˢ =55(;'^ˢ . 4 41 ˢ ;= ';71 ˢ <7'884ˢ + # @ # Bˢ @! ˢ 4 ˢ - !

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$+-82#F " F+ F # SF -G +F- #--# # 1#2#F- 8 + +8F- 8X # 8+ # - JJ#-# 1F8+8 8 + F+ 8X E#J8 E28# 2# - BCC 1 2 . ,!A E F ACB /2 H8+ 8F- F 8 <+ 82# #- FE +818+ 8X E#J8 -F E ALK : F 8- # # SF8 +# F+ F +F -8SF8 EF f@ &#-< +# - 8 # # 8+J8E# +F X## @ : F E -# # 8GF F 8+8 F+ # # # # J8 F <+ 82# 1F ,L_Y # I8 #8 + H J F 8+ 8 +E# 8 -FJJ8--#--87 # /2 H8+ 8 @

F +8G I# <+ 82# 8 8 -8 4& __ +# #- ! E F F-SF8 A A
9)U#F E##- +8G I# #-
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B C %42 7: '8 ;2 ;72'8 5= (78) (4 '(1 87@ ('5 4 5= PPM - $# B
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(' ':78' =22('8' 87'8' 49' =;:=?'=' (13245'='< (4'54@= ':78' :422=' '1@4 ' 78' (@7?' 7:3;=1('2=;71' (2 4&'
5' 4' (?' (78 5'1'?5' '5'51 '=;;5:7' '(5!' !' ,, ' 4 5" !
BZC' =58 (5 '58' 32=18'< 78 (' ((78'71'(48U58'67" 7 @7 (1'851@8'' 4' ' (55'(1' =;;7@(' ' ! !'
, '@(;41';(1'4='J < - #' ! !' ,M, ' 5 ''5& 7 =@'=' !M!) =8 'Z' (55=8' (:'787 @(=& 1@4 '=' =;;'878' 48'
((78'58' ('8=;'=' 24; ='67" 4 '87;;488' ''5' ' (55'('z55<8' :58!' :'?!' ' (55' 4'?4171' ?4;'1=' L (55'?'8'
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B C' 8 ('?4@ =5'@8'' ' 4 5(;378' 42' 49' 7 =@'=' !M' 42' 49' O'4 =5!''5' 3 =5';=' 584:''' 65" 4(?41' 2'(:;'
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6 ' 541@4' 4' + ' 7 78 = 7 (' <'22' ' O #\ ' ;1 ' 4 ' M ' 5= " 3=1'548) =58=24'
+ ' ' ' 7 ' '5' (8 '8' ?(''!' 784:!' 3 =5!
B C' =5' ;=1@=87' ' L;271 '84?' (5 4(' ;=1@=8' 71' 4145?(' !' 3 =5';=5' 67'?41' ;=1@=87' ' (' %=;('=54'
: (3(1" (?' (55!' ! , ' B;7G78' '@841 41'5' ''5' O'8 !' ! ' ;!' C' :4<('(1' ?2 '851 ' 67(71' @ '1(1' # @'
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@ (44 ' < (145 (' 67(4' L5;42278 ' 4? 4578 ' 4 ' 3 =5';" (8;:(2'8 ' 8' 4' 249(5? '5" 8; '@ = ' (2''674' @(7;"
84 (75 !' 8 (' 7 ' @= 7' ' ;=224 ' ' =8!' ;(2' 4 ' 4?'?' 65 ' '5' 348(5 = ' <=2!' 7 ?!' (!' !' s5(4?(1'
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4?'%; 8'@5'8' @ '1(4' @(p8' <4 4' =15'('@4 '4 4N' ,?('@(8 ' 4?' (' (8'241 ' ;=1@(7' ' (55=' -,M ' ;7G78' G(1' ((4'
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7 '5=5' ?7:' (4 ' ' ;(2' 4 'B @!' C' 4(1' 1(9'1'8' 2(7?':58' ;424: (4!) @ '1(' ;(2' 4 " 4?' '=' @ =?'' ' @=8 &'
2'71(' 18 42=?(1" - ' '5' <=2!' ;71' !' < # ' ' 7@@24145 = ' :?' (55!' ZM ' # % # ' # ' (:' (55=' ZM'
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45'''5'8' O'8 = '(51' 41@= ':78' ;=5;'2'(" 54674(5 ' 7 '@(4 '49' =?V422" '884 !' '(' (?' 45(471 ' U ,!
s7(1 '8' 784:'78' :'54' '5?4' 4@ 4345?(' 72!' < ';(71 ' '@84' ';'88'1' 4@ 43458(8' 48 ' (' L5;422=' 4 ' (2''8 '
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' ' + " ' K ' ' ' # ' ' 8 ' ; '
8!' K ' ' % ' 'N' ' ' ' 8!'K ' ' , ' '
' ' # ' ' / T ' ' # # ' ' # !' ' A.'
, ' ' ' ' !' & ' ' / ' ! " ' !'
' / ' ' ' ' n ' <J XXX I#' ' '
'5 ') A' ' # ' ' ' J ' ; " !' / ' K ' ' ; !'
P JJ' , BY' 4 4 4 4 4

92' / ' ' 8 ' ' K ' + ' # ' # '
' , ' ' 4# ' / ' ; ' ' A'N= A ' 8 '
+P!' ' T ' # ' ' # ' ; ' 'N' ' ' 8 ' ' '
' , ' , 0 ' ' ' '# ' / ' ' A ' # !
J " !' K '5 2 ' # ' # ' , ' ' ' 4 4 4 4 4' ' '
2 ' !' bxq(

J!' !' / ' / ' A ' ' ' ' ' # ' ' A,7
+ ' ' ; ' # ' / ' " ' ' !' , KY
9' !' / 'E ' 8 ' 8!' ' ' T A' "A ' % , ' '
' U !

92' !' / ' ' ' 8 ' U ' " ' ' '
8 8 !'K ' ' ' ' ' T , ' ' ' ' , ' ' '
' ' + # ' !' , _Y

B C' n@ (' 48' '; (85(' L5=?78' ' / + ' 4' 4 1'5((' " ' / % $' ! !' , !' =?41' (55='
=58 (5 '55('] 2(?'(= 7 1' 8@4; (;5'('4?'; =' 878 = ' 4' 784:'78' : =5';=5'877 1' (2?4' 7 '24' 4 1'5('H!' s7(&
?4'5?4' 5((5 5' (?G4; (' 855' (' !' 0'4 =5L'5=!' %'?4' 87@ (' @!' kn' 5= !' !
B -C' =587 1@ '8' 45' (2':78' @48 '245 " 7254 4' =:'' !' 584:!' 0'8 !' !?' ;!' Z!
B C' 4' '8@" 1 P 4' ;=5<4' =8' 1 75'' !' 9'' = =1= ' ! !' ;!' -' !' 0'4 =5!' (??' (1 45 (' (?' 784:'" 2''=5!'
4'] ' : : =5' 4;' 1 4' (5?' (22' =<' : 4' = 1 (5' 7@' 4!' 4' (55=' 48 (= ' ?(<V8' '5' (8 '8) =?41' (55=' ';'5'58'
?4' 1 "<'2'78' '5 4 4 1@ 58' 48 ' PP' & ' ! - "K' ' ' # B
!'ZC' 55=' !' ,) 4@72 (' 48' !' 0 4245(' '5' (8'2'; (' !' !' (;422'5" 4' 4 ''%'(' (:'; (5(' 7' '5' 584:!'
?4'%' (' =58 (5 R5'' ! ' ;!') !

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9 ' AAA !' / '? ? ' ' 8 ' ' " A ' * 'E ' '
4 , ' ; ' , !' !' K ' ' K ' ' ; ' 8 !
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' T A ' ' , ' '& + ' ' " , ' ' ' '
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92 ' !' & ' / ' ' K ' ' K ' ? ' " '
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% ') " ' , ' , ' , ' ' ' ' ' # '
'& ' ' '? ? ' * ' ' " ' ? ' ' '& '
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92 ' / ' ' ' ' ' ' K # ' % '
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, , B .] ' 0 . ' ' 2E 2! ^' ' R!' 4!' !C

!' ' ;U $ E' $ ' ;=5 1 ' <
; ;3' P7 : ;=~5 '<" 2 ' ;@" 5w! !' ' :G' ;3 '@'
! !' '5' j ; : ;3' P=''524='5' 1 ' ='' @G'4' @4&'
;2' 5'!' ;4'55' 5'5 '5' 5 ' ;D'" =22 '
=22 & '@ ' Z' =22 & 1 45 : !' Z' = &'U=U'
;G5 ; : ' ' ; ';' 2'@ > 22 ' Z' '@" 5' '@ '
@ @' 2' ' 5 f @' @@" : f 2'@ ' 22) U2 : : 4&'
@ ':' ''5' 2 ' '5' '@ ' ;3' 5 '5@='@' B;4:5 '
1 @='@' ' #- a' :=@;3 '@' FU2 ; : '
;=5' ' :@ ';3@':3 ' Z' ;=' ' :=' ;2 '5:' 2

/# UH -' +F +U-' J#+JF2#-' F-@ 8X'
8+ c 8' J8J#E# ' # ' $+ 82# ' &F J +0'
8 -8 ' JJ#-F-' ' +# F-' 1#2#c-' 1+ +#-' -F# ' #E'
8- ' 1#2##-' JH E#' & # 28 #' 1#2#' + +8#0'
2#18J +^' -F ' # ' +#F ' 20
2 + ' #- +F ' 22 ' #22F- +#- ' 22 '
< +IF- ' 8 ' 22 ' 7 G E @ ' SF '
+#Gc 8 ' EFJF +G# 22#c ' 8 ' < -2##F ' #- FE'
' J F- ' 1F# ' -8< + # #-' 8G #' # 8+ #-8'
' +G# 22# ' , A Y ' --8+F ' ! J#+< +T-

B C' K' =88] (';= pp' ! ! w =58 (5 p5=@=2'8?4?';((48 ' '?! (2(8 ' 7 ' '5' ?('= ' 4 ' '5
=; !' 41@= !' !9' ' ;!' !' ' !
B MC' K' '(;378' (:2'5478 '49' '1 & (: '54(' '5' =55(;'(57 '=(p' 5'8' 84?4 ?'; (I!' ''67' ' 2(34 478 ' (: 4='
("87;;488' ' . 49' O' :4 5'44' (55=' , !) O(4;' ?4' 4= ' "5=8 5' 1 (57 !24 55 '7' '5' 1 ('54' 494 1 @2('8' =V458'8'
L '(4 ' @(!' -) ' 7 ' ' # $ ' . 6 $:' # # ' '* ' $ ' @(' ' -' 7 ' ' ' # -$ ' ' '
- '- ' # ' B'!' 4!' '@7 =' 5@5' @4 45' ' '(;378' (: '5458' (?' (5'27 1' @2786''(1' 9' 84 ('8 ' 67(5?='
(?' 4 57 1' (8;45?' !' ?' '58=2' 7 1' 4 (!C) 2(34 478' 5=1 45' (': '554' ?4?7; ' ' (' # $ ' '5' 75=' 2=;= '
'5' (2''8' $# ' 4; 4' 49@2';(' =9' 45'1' # $ ' =9@ '1 ' ' 2'(4(1 ' ;' ;72(' 4 ' 4 ' 24 ' 4 ' '5' ;7 4' '5?' (1 '
1= 4' 54 1 @4' (' '; '8' ?4 p (2= ' =2 (5!' '5' '(?4 ' @!' , Z ' ;!' !
B, C' % (p8 " 4 ' =2 (578' 5((5 ' . NN # $ ' (: 4" . 4 '8' <p2'7 1 ' 4 ' 87;;488= 4 1 ' 4 5(884'
(55'8' Z ' (:' (55=' !' , ' 65=' (: 468' '5' @ 442'='] ((5=' @4 ' (?' (55! , , ' '(? ' @!' M ' 5!' !' '!' 4!' ''8674'
(?' @ 842'7 1' $ # O* ' @` ' (L: 4" . 4 '8 ' 49' =;3=?'=' ='1''245' <'2'= ' 54@=8 ' 4 57 1' '5 (8' '
(55'8' ' 78674' (?' (55!' , ' 66=' @7'858' 48 ' ('24 ' '1=' 384 4?4' + # ' > ' '(;3" . 4 '8' <'2'= ' 67" (75u' 4 5"
' 3 '8 " - ' =;;7:7' !) =;3=?'58' =p1 3'45' 49' 24;3'(' 2:(5';(' 79= 4 ' 48' <'2'=8' 878;4@' '
< ' =22(' + ' 4 ' @ J@ # '67' * 4 5(5?";5@'?' ' (55 5' 877 1' '(;:7 1 ' . 4 41' O':4 5'(& ' (?

2C< 4bU2 ':4bU2 G2'83' 2 '835! <;7:;=1b''<'
' 1 5' @7bbI::' *@'bU;:' 2bU':;4 '4' Z' @='
' :bU@:3?::' 1 ' bU;3 :4!' ' '' ' ' ' '
bU@bU@ ;bU;:' <47:::;:=' " #U'@!

!' ` ' =2 U' bb '@ -C ' -bU:3bb!'2' '8 : 4
4'5:@#;:!

G8 #8 -8-' /# J F ' JF '1+ +# F-' -F#-'
8 ' I8 ' 1#2##-' # ' <+w2# ' + --8 -8'
JJ#-F ' 1F#--8' ' +8 -0 2' 8G8' 0'
G8 #w @ &F J +' 8F' 1F#' &+F#Ew'
8G#-' /# JH#' J#+JF2#-' +F +#-' #' 8'
8J#-F-' 8- '# ' <+U) ' #- 8'^ SF ' E8' J F- '
E#J F '8- '<+w2#F '&F J +8 -8
9 2' '18+# 'I' 22 ' 22F- +#-' #0' AA
F#' 8G F ' 8 +#w' # 8' # 8 #w'
= R78w' B , C

& '& ' $ ' ' > !

< JH ' #w' 8I8+-w' ' A 'F 'J8+ #--# 'E8-J+# #' / 2 H8+ 8F-'^ E#I8+- +F '
8 # ' F H '-F1#+ G# ' ' 8GF ' #w' 8 < +# F-' J -<#+ # ' 8 ' # ' ##-'
J8+ # FE# 8 'SF -#' 1F #JF2 ' +#<2#J#' J - +#J '8E J8+8'^ ' 8 #' $ 8 ' H+ 0'
2 G#JF ' , ' #-'<+# F '8E# F '# ' 8+' # ' Y' J8 F ' Z' +8 + '8 + 8+ +8' '
3 '$ +#J##' EI8 F' 'B A' E' 8XJ#E#F ' # '^ #E8 'J 1#+ +8' 28-' &F G 20'
28 -8-'# 8 SF8' E#J8 ' 8J F '1 2'AL ' ' / 2 H8+ '<' B
'SF#E8 ' SF E' #F '8I8+-w' #w' 0A ' F22 ' E##1#J 2 -' JJF++# ' I80'
6 #F ' + # 'U' J -8 #F ' 8-' I8 8+8-'^ #' 8GF ' SF#' J8+ #--# #' -F ' ' +8G '
F+8E JH#' #+##' <+# #' 8G#-' !J #J#' J#w' J -<#+ '^ ++ ' E8 #SF8' I8 8+8-'
8 ' I#' -' ' # 8+J8--#--8' # 8+' 8I8+- ' + # ' 8' EI8 ' ! '$ +#J##'
'B A
!8E' 2# ' 8- ' < JH ' 4%4 8'=5'8' 9 ' ' F # 8' E# ' <7'884' 8; ':''
#G8 JHF-' 'XI###' $ 28 w#' ' 8G#-' G < #^' =8SF8' E#1#! 8 +' 8F '#E' ' 1#E8' 8X

(78 71' (2 45'A ''5' 4 '(''5' =: =1('=' A2' '=;;'?415 ' ! !' ,Z!) 55;' .49' =55(;'A' 7 4?(;3''8'
' '58' '(;3'' .4 '8'<'2'58' .49' 0':= 5'A' 24 ''178' =22(' 07(8'=1 '451' < ('25'8' 4 ' '8=;''8' '5' 2:(5'(1'
(:4 '!' 5?4 '('8='8' ?4 42'; '' ('(1 ' '5 (' 4 4 41' (55''1' 4?'4 55 ' 4 ' ;5 5' (7424' 7 4?(;2'=' '5'
('(1' 4?475 48';=5 (' 2 =5'=8 '4' .7? ';'=1 1' @(':58' 8 (5 48' (1 ('5<4 45?'' @= 48 (45'' 5(; '' 4 ' ;=@'(1'
e 78'71' = 3(' 2 '171' (1(5'A' .4 41 ' '5' @ A2'=' ?4' @3 @ ' #-' =;;'?415 ' (1(5'(N
.4 '(1' <75?' 78' 49;'?4 55 ' ! ! , ' 4 ' (:(; '8' 72 ('] 2455 c '(1' 4 ' 4(;371' (;71' 2 =5''8' 4 '&
=541' '422'(1 ' 5 ;4' '42' 4 ' '42' @(48';=1@24; 45 41' =1' (571' '!# $' ' + '
8':'' '' 4 ' (1'8';=1@((75 !
B, C' K' 55'8'< F';=5845 24@ ':78'=15':78!' 4 5(%'' ' (654' + :#: W' #5 ' (:' (55=' ' 67=' (1(5'('
4 4 8('48 !) 5' 1('54' 4941@'('8' =V458'8' L 'A' @(!' '3A; ' '' 14'' 1(57' 8; '@ (' 24 75 7 ' 2'5 7('
&1';( ) + # ' # ' ' ' - '] ' ' ' + ' '!' 4!' 7 4?(;378' ' '78' @ '178' <7''
.49' =55(;'A' 4' 45 4' '248'(!' !

" ˢ) !

I8 8+## ˢ !J +F ˢ F 8 #-ˢ E8-J+#<-#--8ˢ ! 8JF2 ˢ # 8F ˢX#ˢ !8Eˢ # ˢ #- ˢ <8+# E ˢ ˢ <2F+8-ˢ 8 + #ˢ SF ˢ XXX#ˢ 8G8-ˢ ˢ <+# ˢ # H ˢ Eˢ F2 # F ˢ /8+GF-#F ˢ +E# 8ˢ -8SF8 8@

ˢ ˢ / # ˢ ˢ % # !

55'8

#	ˢ ˢ ˢ ˢ	# +# J ˢ 8ˢ ?< J+# # ˢ	
##	ˢ ˢ ˢ ˢ	J +##- ˢ q<D)8 F<ˢ 8ˢ q<8)#-	[illegible]
###	ˢ ˢ ˢ ˢ	J D <ˢ 1 J ˢ 8ˢ +#JH+##<ˢ ˢ	ˢ ˢ
#I	ˢ 0ˢ ˢ ˢ	q<#D)J +#ˢ 8ˢ ?<8# H2# ˢ ˢ ˢ	ˢ ˢ XI#
%	ˢ ˢ ˢ ˢ	h+##<8ˢ 8ˢ ?< <U ˢ	ˢ ˢ XX##
I#	ˢ ˢ ˢ ˢ	Sh9ˢ 8ˢ m2 8HDD' + #	ˢ [illegible] %
I##	ˢ ˢ ˢ ˢ	8ˢ q<+# 8E+#ˢ	ˢ ˢ X##
I#2#	ˢ ˢ ˢ ˢ	?<# J D)#7ˢ 8ˢ Y # 8h +#ˢ ˢ ˢ	ˢ ˢ X##
#X	ˢ ˢ ˢ ˢ	8HF F<ˢ 8ˢ ?Y<F#J ˢ ˢ	ˢ ˢ X##
	ˢ ˢ ˢ ˢ	< +#8ˢ 8ˢ +##8 #- 8 ˢ	ˢ ˢ XI##
X#	ˢ ˢ ˢ ˢ	;2 8 JD)ˢ 8ˢ ; F<8 F<+# ˢ ˢ ˢ	ˢ ˢ ###
X##	ˢ ˢ ˢ ˢ	J # ˢ 8ˢ 9#<8ˢ	ˢ ˢ ###
X###	ˢ ˢ ˢ ˢ	8 #-ˢ >F#2 F# 8ˢ 8ˢ q2 #J ˢ ˢ	ˢ ˢ ###
X#I	ˢ ˢ ˢ ˢ	?<8D < ˢ 8ˢ > 8 # H #	ˢ ˢ X##
%	ˢ ˢ ˢ ˢ	J +#<ˢ 8ˢ	ˢ ˢ X
XI#	ˢ ˢ ˢ ˢ	F IJ<D)J ˢ 8ˢ 8HF F#<ˢ ˢ	ˢ ˢ ###
XI##	ˢ ˢ ˢ ˢ	8HF F#<ˢ ˢ ˢ	ˢ ˢ #X
XI###	ˢ	<9)2ˢ 8ˢ 1$B Kˢ 8< +##-ˢ ˢ ˢ	ˢ ˢ X2
X#X	ˢ ˢ ˢ ˢ	)#+#J 9)ˢ 8ˢ <#+#2ˢ	ˢ ˢ
	ˢ ˢ ˢ ˢ	*@'b ;b ;:ˢ F@'5 'ˢ	ˢ ˢ XI#
XX#	ˢ ˢ ˢ ˢ	2#+$ˢ 8ˢ <+##8 ˢ ˢ ˢ ˢ ˢ	ˢ ˢ
XX##	ˢ ˢ ˢ ˢ	8ˢ I J <D)#' 8	ˢ ˢ XXX###
XX###	ˢ ˢ ˢ ˢ	<8m0D)2ˢ 8ˢ <#F ˢ	ˢ ˢ X#X
XX#I	ˢ ˢ ˢ ˢ	#<<D #hˢ #<8D)8 ˢ 0ˢ ˢ ˢ	ˢ ˢ
%		D)#7D)ˢ 8ˢ ?<<#J 8Hˢ < ˢ ˢ	ˢ ˢ X##
XXI#	ˢ ˢ ˢ ˢ	28 -F<ˢ D) # 8	
XXI##	ˢ ˢ ˢ ˢ	?)#+#J +#ˢ ? 2< E #h 8	
XXI###	ˢ ˢ ˢ ˢ	)8<UF<ˢ hF# 8 +#8 ˢ 8 ˢ 1+ +8-	ˢ ˢ #I
XX#X	ˢ ˢ ˢ ˢ	E Tˢ 8ˢ # 8H+# H+#ˢ	ˢ ˢ #
	ˢ ˢ ˢ ˢ	? 28 -F<ˢ q< ˢ 8ˢ ?<8< F<Dˢ h8J+#JH	ˢ #
XXX#	[illegible]	) -F+ˢ $F7 D(((((((((((((((((((((((((((((((((	

ˢ I8+ ˢ # ˢ #- ˢ 2 G ˢ 8GF ˢXXX#ˢ EF ˢ -F ˢ +) 8 -ˢ SF#ˢ +8G --8ˢ E#JF F+

" 9 ʿ ! K_

_Aʿ 8 ʿ _L ʿ SF Eʿ <8U## F-ʿ # J+8E# #28ʿ 8- ʿ 8SF8ʿ I 28 ʿ --8+8+8ʿ 2# -ʿ 8ʿ *G8+ JHF ʿ 8F E8 ʿ 8GF ʿ F 8+F ʿ 8XH# F#--8 ʿ ##-E8 ʿ # # F- ʿ 8 E8 ʿ +E# 8) ʿ I8 8+F+ ʿ G8 #F ʿ 8X<8##8 # ʿ +8J2 ʿ +8<FG ʿ G8 8+ # 8-ʿ H # F ʿ G8 8 2 G#wʿ #<-wʿ # 8+ +F ʿ EI8+- F+ʿ 8++8G ʿ # SF8ʿ #-JF8+F ʿ +E#ʿ JF ʿ #-ʿ 8GF ʿ F ʿ <8+# EF ʿ +F ʿ K _ʿ ʿ # H ʿ 8GF ʿ #wʿ -FJJ8--# <# F-ʿ JJ E +8 ʿ +# F8 8-ʿ 8G# F-ʿ <2F+8-ʿ -ʿ SF ʿ I8+# -ʿ 8X#G8 ʿ 8 -SF8ʿ -ʿ # -8+8 8-ʿ # ʿ 2 G#- ʿ SF#ʿ ʿ 8GF ʿ FGF+ # # F-ʿ +8 # F+ X ʿ # ʿ X8 <2 + ʿ ! 8 -8ʿ G G#wʿ / 2 H8+ w# ʿ ʿ # ʿ +G# 8ʿ < G# wʿ ʿ I#ʿ 8#ʿ F ʿ #-ʿ I8+ #-ʿ I 2E8ʿ E#-@

" ʿ ʿ ʿ & ʿ P ʿ ʿ 1 ʿ FX ʿ G8 8+ # 8-ʿ G8 8 2dG#J -ʿ # 8+0ʿ ʿ ʿ ʿ ʿ ʿ ʿ ʿ #J -ʿ ʿ <F ʿ # ʿ J E# ʿ 8ʿ BBʿ ʿ B<Bʿ ʿ ʿ n !ʿ ʿ BB ʿ F ʿ ʿ I82ʿ A ʿ 8ʿ H+#- F ʿ #Eʿ 8- ʿ ʿ 1ʿ) ʿ ʿ ʿ ʿ ʿ #-ʿ A ʿ < - ʿ < JH ʿ --#G ʿ # ʿ =! H Jʿ <8+8 ʿ / 2 H8+ 8#

8 # #--8ʿ < + 8 ʿ # 8+ +F ʿ I8 8+ F ʿ H+ 2 G# ʿ =8SF8ʿ + 8ʿ F E 8ʿ JJ E ʿ 1F#--8 ʿ =8SF8ʿ 8+-8ʿ J F # ʿ F-SF8ʿ Eʿ ! 8JF # ʿ X ʿ SF ʿ / 2 F-ʿ ! JH+ 0ʿ #- -ʿ 8GF ʿ # 8+ +F ʿ JF ʿ <8+ +F ʿ #-ʿ J 1 -ʿ J < -F# ʿ 8 ʿ +E#ʿ -F -ʿ SF# F-ʿ SF#-SF8ʿ 8Xʿ +8G I# ʿ 8 ʿ F 8+F ʿ <+ 8E8JT-- ʿ Jʿ # ʿ 8GF ʿ F ʿ J +8ʿ - 28 ʿ # ʿ + # # F- ʿ 8 SF8ʿ ! J+ ʿ H 8 ʿ ! 8Eʿ 8+ ʿ J ʿ 8G28X8+F

! -8JF2 ʿ >ʿ H+ 2 G# ʿ 8JH #J ʿ < F2 # ʿ # + EFX8+F ʿ SF 8ʿ + 8 ʿ 8 ʿ # G8 #F ʿ 8 ʿ - + # 8ʿ 8 ʿ +# H 8 #J-8ʿ -J#8 # ʿ < - F# ʿ 8 ʿ 8 -#F ʿ SF8ʿ 8 E 8EF ʿ J2 -ʿ : F E #- ʿ # ʿ 8 F-ʿ H+ 2 G#J#-ʿ 8G28X8+# ʿ # 8 #ʿ I8 8+8-ʿ ʿ 8#-ʿ I# # ʿ I8+ 8+8ʿ < --F F- ʿ JF ʿ 8 E8 ʿ 8G28X8+# ʿ " + 8J#ʿ 8 ʿ - #ʿ ʿ #-ʿ ; ++hʿ I#E8 F+ʿ E8ʿ H+ 2 G# ʿ E2F- + E ʿ <#+ F-ʿ J G# --8 ʿ G8ʿ < - 8 ʿ H8 <H#2F-ʿ # JH8 F- ʿ # ʿ 2# + ʿ ʿ Eʿ F 2#JF ʿ ! ʿ #<< 2 F- ʿ 8 ʿ F2#F-ʿ 1+#J F- ʿ H+ #J ʿ -F ʿ ʿ + 8ʿ J E# ʿ <+ EFJ8 8- ʿ F-8 # ʿ 8 ʿ 2##-ʿ < - ʿ 8F ʿ 1 J8 ʿ <+ 8 F8+8 ʿ #<< 2 #ʿ F 8 ʿ #H#2ʿ -F<8+8- ʿ #-#ʿ # 822F-ʿ 8Xʿ # ʿ I8 8+#ʿ ; 8+-# 8 ʿ E8ʿ E#I#-# # F-ʿ 8 ʿ G8 8+ # # F-ʿ G8 #F ʿ ʿ #-# ʿ 8 ʿ 8 ʿ 8E# F-ʿ ^ ʿ 1+#J #ʿ 1+ G 8 ʿ F ʿ H 8 F-ʿ -8+I ʿ ʿ F-8 # ʿ ! J822 ʿ 8 ʿ 2##- ʿ # ʿ F ʿ I#Xʿ #+ +#ʿ 2#J8 ʿ #G8+ JHF ʿ < +F ʿ JF+# -F ʿ E8ʿ E J +# ʿ 8 < +F ʿ # ʿ +8 F-ʿ # 8+ #J#- ʿ 18+8ʿ F #SF8ʿ / 2 F ʿ -8JF F ʿ 1F#--8 ʿ =8SF8ʿ 8Xʿ -F ʿ 2#SF#Eʿ EU8J#--8ʿ ##- ʿ SF-8ʿ I8 8+8-ʿ ! J+#< 8-ʿ + E#E8+8

" ˢ !

!ˢ !

,ˢ ˢ ' ˢ ˢ ˢ & ˢ 3 ˢ + ˢ " ˢ

, % ! ! "!ˢ ,ˢ& ˢJJDA >#Xˢ$ # ˢ A_ ˢ , Y

92ˢ"!ˢ / ˢ ˢˢ ˢ !

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B. ˢ O' .'(!(8ˢ GZ 1'4bU: ;3! 54 ;3!C

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B C' (?41' 3(:45 ' 5 =@'78 ' 4 ' =8'58 ' !Z ' ; ' ,M!

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B C' 5 '67'88'1'" 4 878' 875 ' '8 ' ' '5;'@'45 48' (' =;4' [[# B' 4 8'' 8; '@ " 8'5' 67(8" 5(('=' = (' @ =8(';(' <'''884 '5=5' 2'L 31';(!' 941@2(' 424 z' (??''9'158' '5' =24 =145'8' 49' =275':(5=' 4 ' (2''8!

B C' + -# ' <'<'(' '(?(;:' ' 9= ' =;3=?'' ' (' 2(34 4=' 4 =544' + -1 ' (@@4''(5 ' @!' Z ' ('78' 4 (' ' 4 5(;3" 49 7" (?3^8'884!' + -# ' (@'22'8' 7<(' 8' 5'<';(' ' + -e '{2:';=1(' ; '@ = 48' ?4' %' (' (';' ' ' 67" (5 4' ' 4 5(;'11' <2=14 ;' 8; ':75 ' #5 ' <''=8' (' (';'=' :(@' (=8' 7' '5' %' (' '@(!' @(' ', ' rn' (@5?' (1@71' ='& 4=2(' 7:" (8'2';(R5' 4 49' ' ' #' (?' 1('541' (;58' - ' 3=?'4' 7I;3' 0(;m4 ' '5' '((' :(=5'(' '5' ?'8 '; 7'](2 '458'!' (?41' 3(:4 ' 7; = ' %' ^' !' 458 5' ' 67" (' ' @ ^ 4 4(' '(52' <'2'71' " ' 0 ' ' !' (';'=' :454?'; 71 ' 471' <'5'884' (' 67=' 4; (' 2'54(' .4 48' =55(;'^' ?48;45?75!) 4' 7(;3=' 3^;' 49 (5 ' " 142' 1(57' '5' 1('54' @ ^?'; " 941@2('8' L '^' @!' Z-) 0 ' '0 ' 7' ! M ' - ' '$ ' ' '& ' '# ' # ' ' #G' (58' 48' ' ' 0 ' ! !' M ' 4 '(55= 51' 4 (' ' 41@= 4' 67=' (24'78' @4 45' ' 0':4 5'((!) = 74 75' ' (674' ' 4J 42'67" < (48' 4G78' (' !' (';'=' :(@' (H' '1=' 4 ' '@84' #) 2(34 478' '567' ' @!' Z-) K' '0 ' K' '(5" <'2'(8' 141= (78' '5' %' (' 45' 5' ' (1'2R(51' 0L& '7'5' ! ' 0L' '5'5' 1 '4' 0L' '7'5' '4 K' 67':58' =55(; '^' .4 48' '75?' ' (= '4 (aa '4 ' ?= '?7=' (2'" < (G;8 '@ =<488'=54' 7'?48' ; (5' ' 67= 71 K' '=: 52' '5' =' 87(1' ;41' !' (';'= ' 7:" (54 58' 84?41' '@3'545841' 4 49' !Q

5=8;' ' =2 (558' '5' '(?4 ' @!2Z '5!' ' ;71' @ =:('8821'8' 5 '67(''8' 0':4 5';'8' # ' .4 ''5' =55(;'^' (= 41 ' <'2'71' <'5'884' ' + - ' < (41' '(22" 1(5'!' =;3=?'=' 87;;488'884' '5' 4 5=' = '78' 0':4 5'^' "' '\ 75'=T' (5!' 9' ' ' ' '%'=<<7 (' (5!99 '' ' ' (5!99' ' ' ' 4 ' (= w '#T" (55'8' ' (5 4' (? 45 ''1' (';' ' ' 4 ', @=8 4(!

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B C' ?' 4<4 ' ?('''8' (? =7852(51' '! - '; ' # ' h' '!' 4!' 3 '8 " (5!' -Z' 67=' :42'8;78' '5' ' ;=' (9'1=' 4 4; 78' 48) 5D'5 1 1 '(5= ' C' 9 '!

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(55= 846! 14584 (5! (55= 84 (- 67(4 = 58 48 (55=] ! , - !) (145 '5 =; ! 41@ =:' 71 4G78
4<4 4 ('78 (? (55! - ! ' 4 5(;378 (? (55 @=8 1= 41 =58 (5 '' 67" (55= ==;'878 48 ;71
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!ˁ =22 ˁ M 6) ;4';:@4ˁ :2' 35 ˁ 5 ˁ I 3ˁ 7@ˁ ^ 2=5 @:ˁ 7'@4 :3 ;3ˁ '@4ˁ 4ˁ L4'5ˁ bI5 ˁ :4'Lˁ 4'@::@ ;3 '@ˁ ˁ 3ˁ * 222: '5!ˁ @" ;4:ˁ $ ˁ : ='5':3ˁ ;;7'&ˁ :4 ;3; ˁ Zˁ ;;'u5ˁ :2' 35 ˁ 5" @ :3 : @

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!U p(;378ˁ . 7: ';(78ˁ999ˁ(55'8ˁ 4 &ˁ ,MZˁ 5(' ˁ 41= '<<' ˁ B- Cˁ ?=o44ˁ ;4;'?'884 ˁ =;;'8O ˁ (ˁ =22('8ˁ'5ˁ @ (42'=ˁ 7:;=1 (4584 ˁ '!ˁ 4!ˁ (ˁ <'2''8ˁ < ('8ˁ 87'Nˁ 4 ˁ 488' ˁ '(;378ˁ '8 4ˁ @ (42'71 ˁ 7:2'5Y ˁ 4 ˁ =5 '8ˁ 7(? ˁ 4 ˁ 1 ' 3'74584 ˁ 4 ˁ (5&1 ('4584ˁ ;=5 (ˁ (45'45848!

!ˁ =22(ˁ 2278 '8ˁ 754ˁ 4 5('<ˁ ˁ(55'8 ˁ gnCˁ ?=o44ˁ 49@72878ˁ X884 ˁ (ˁ 7 4?(;3=ˁ ' '= ˁ '@84ˁ 4 ˁ ? =ˁ < (48ˁ 4G78 ˁ '5ˁ 2:(5'(1! ˁ 4ˁ 8467(;':78ˁ 4=8ˁ 84;7 "ˁ 875 ˁ 4 ˁ '5 (ˁ (5571 ˁ 4 45 41 ˁ?484 74 75 ˁ 4=8 ˁ 4 ˁ 5=5

B Cˁ =5ˁ;=5<75?45?" ;71 ˁ 55(2':58ˁ 5'8<(2458':78ˁ'5ˁ =?24'(5= ˁ (V2'58=5 ˁ =!ˁ - !
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=41(551 ˁ 4" ':''4 4ˁ (55=8ˁ 999 ''!ˁ L !ˁ @ ˁ --! %2?4ˁ 87@ (ˁ 5= !ˁ M ˁ 4 ˁ , ˁ @(!ˁ ˁ 4 ˁ 5= !ˁ , ˁ @!ˁ ˁ
' 41 ˁ 5= !ˁ , , ˁ @!ˁ !ˁ ' 4 5(;:" !ˁ =?2!ˁ 8=5ˁ @2= 48ˁ 65(1ˁ ,Z 4" ':5' ˁ 7 ˁ 87@ (ˁ @(!ˁ !
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;3;' y4 ;3 '4bU5'3 @ bU5 ,222:#'5'
:?D' bb5 '<'55' _';7-# bUG' 'bUP &@4'5' bUD'
:3G 4';3' 7'@4?P ';;' '@4' bU5 4'G'';'
,2';:'=D'!' 7-' 7'D 4bUP3bU;:' '@4bUk7U5 '
:=':3' _'=5='<'G5:=@!
#2!' ;3' j ;3' 24??" 4 G-' ':'F@4;UG'5'
5'7'-:4' JJ' #U;G' =22bU'::' -' '<4bU;:'
;;bU;:bU :3@4G" P'U5'5=5' 2bUR'5bU C=2 ' 24'
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U4bU -7'< 2'-3' 2?' _' =22bU
4bU5' @=U!
A #2' .U7bU'@:' 5>' =22 ' bU' '254.&'
1 ;:;' 24=' 'b2@ @5' _' @=' 2='@8' @#:' UP)'
:bU1' 2bU -' 7U@ bU' -:b2 bU@ M J; '
' ' @'' bU57bU' _' :=' @4b ::7' :'=@
@4'5' @' @2V;:;' ' 2=;:' " U;:' @bU@ _'
'@ ' 227!
#!' 7'@4 :bU;:' '@4' :4';:' :2'b2 :bU'bU
@';3' _' #U 2' :' 7@' ;=@;bU'@2 ' bU=2:b2:3'
O' @7'55' ::' :@bU='' ' :' 2b2':2" b'
@=@4' ' :' 7bU@ P?::'222' !!' 2=;:' '5'
'@-'b222b2':3!
K #2!' bU=2:: ' ;' @71' ::bU::@b2=" @'-:'
' ;:'U' 7'55' J ' :2'=-3b2'" b21:bU'5' '
;;=@?7U'@' 24' :' bU;3& '7' 3 54b2:b25!'
:4' bbm5 bU=2:: ' @=' b25' '8:' :4'-:'55bU;:'
:=' ;:2 5 '?' 7-:@b2'::4' :?@' b2::' ' :4'
24b2;:#' 7'55!

<2F+8-' SF ' X' +8 -8+# ' # ' 2 # '
8E#8+F '# SF8' 22 #' # 8+ # '8'-8-8'
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F2J '<+'< +8' 8UF-' &8E#' F+8E 0'
JHF-'<+wE#'8#-'8'#' F2 'H +8'H F#
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8X' 2 #w'8' 22 '< +IF-'<+w 8+8

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FX#2# +##-' 8' J F--8+F ' # '
'# 'F' 'H # I8+# '#' #' < -8'
2 #w' 8G8-' 8'#<-#' 22 #' 8 +F SF8'
< -8+#' J8F< I8+F ' +8G# 8-' ' JF'
JH' JJ#E8 2# 8+'8' +G# 22#
F+8E JHF-' #+#F-' +8G I#' XXX' #-'
E =88' JJ#-F-' 8--8' ' 82 E#' 1#2#'
+F E+ #' 8G8' 2#E#w' <FE' $ + F '
8G 28' E' +G# 8 ' JF-' & 22*'#'8'
JF '#' +G# 2[
2 E#F-' 1#2#F-' +F E+ #' +8G I#'
E8' E# #E#' -8< 8 +# 28' # 8+ #w' F '
' - 2 ' ,. Y' E 88' JJ#-F-' 8--8' '
JH E#' F#GH 8E #' /F#' 82 0'
E#F-'#-' [2# F-' 8X' 8' 1 #2#' +FE+#J#'
SF#' # F#*' +8G F ' # 8+ #w' +8 2#-

B- C' =5 45'75''5'75=' (55=' =42:(?''' =?49' 2(:4 4(578' L !' @!' -'4' Z '4' 67'?41' (:' (55=' -!'
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1'54'U55('(?' .4!' 0':!' !!' :'4G78' ;84?4' (?' #'(2 ' (5"=:'51' '?41' (145' 3(:4' (55=8' M' 4' '5?4'
(?' !' (';'" (@@52871' ,Z!' 4' 5= '8' 3 =5';'8' =?';'8' 85" 344;' 3(:4' 2(34 478' @!' -Z!) $ ' 4 571'
(55" 75'''8' 4<<';'' (5571' -Z!' 7;;488=' 4G58' =;3=?'58' 4 5('' (55'8' ''' (:' (55=' -''5;278' 4' (?' (55!' !'
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HD)# Hʾ #U 8ʾq JH8ʾ # 2#D) HE)ʾ ʾ 8D)1# D) gʾ
'ʾ H 2pIʾ D)Jʾ 8D) I#D)ʾ 2ʾ D)Uʾ D)ʾ JHD#ʾ
ʾhʾ 1# 9) Hʾ S #ʾ JD)JH#Iʾ 8 ʾ28ʾ [E D)ʾ
8 2D)JHʾ ʾ2 # H @'#D) Hʾ H#
ʾD) #28# HJH8 ##ʾ I#ʾ DDʾ 2# JHJʾ H1 9)ʾ
8ʾ JHʾ I; W# s# H8D)hD)## JD) #ʾ q<# 0ʾ
29)1F#J8 ʾ 9 J <ʾ H <JHD)#hH8ʾ !ʾ
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9ʾ JH E#F-ʾ FcG 8E #F-ʾ 1#2#F-ʾ
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F-SF8ʾ Eʾ # F ʾ 8Xʾ 8G+# FE# 8ʾ # ʾ 80ʾ
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2 JHʾ 8Xʾ G8 #-8ʾ <+82##-ʾ X###ʾ I#J +ʾ
<+ 12#G I# ʾ F ʾ-#ʾ 8J +#ʾ /# +0ʾ
#ʾ <+# F ʾ +J G#aʾ < ʾ8ʾ <+ G8 #8ʾ
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_ʾ_22 D) ʾ 9)1# D) ʾ JD)J D)ʾ ʾ 8D) H60
2F2 ʾ <<J DDʾ +<#ʾ 2#D) H D)ʾ 8D) ʾ r ʾ
T < #)#gʾ ʾ 8 #Hʾ +F ʾ I; # F D)ʾ
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-g G#-ʾ J G # #ʾ 1#2##ʾ 2#2E#0/2 8Gʾ
1#2##ʾ $2 JH#ʾ 2 #0I8+ #J#-ʾ # F#ʾ 8G ʾ
8 +# ʾ8ʾ 2 #8ʾ < -ʾ F2 ʾ <+ 82#ʾ
G8- ʾ <+ -<8+8ʾ -< #ʾ F # ʾ X###ʾ
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B-,Cʾ < ʾ4ʾ! ʾ7ʾ75(1ʾ 48 41ʾ''8?41ʾ 1= ':7 ʾ (:ʾ (2''8ʾ 45 ':78ʾ ?'8 p5;2(1 ʾ ?48; ':'ʾ !ʾ0'4 =S
5L178ʾ'5ʾ @'8 !ʾ(?ʾ ;4(571ʾ ʾKʾ ;= = 71ʾ4ʾ (= = 75" '7!Qʾ 41ʾ'5ʾ Aʾ(? !ʾ = '5'(571!ʾ 4;= "
0=5= '(5" 79'2'(48ʾ3'8ʾ 41@= ':58ʾ 141= (5 7ʾ'5ʾ = 2 '(ʾ 1@4 ''!
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K 4 ' OL@4 := 4(8 41'8 (7?(;' :78 75?(8!Q 2(5?'(5!

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?';75 8' 4 # ` 48 @(8 (" (@7? (; ' !?4 1= ' :78] 4 1(5= 71 ;! ,! %';78 : (578 48
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@27 48 %'2272^ 847 ?=178 . 78 '; (5^ ;=5G75; ^ '5 (2'67= @(= (2'67= 8@('= 41= ^ (: : 4 5722'8674
115' :78 ;'5; ^! (1 1?'<';'(7 : " ;=5 ' 7(7:7 :'(42 87:7 : (5(?';75 7!) K %';78 (1(8; " 67"
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B- C K '%41'<= Q) ('4;378 24@ 458'8 (@@422(" O'P4 T';4 : 41 'w; 7G78 ';'5'= 5(78 48 ! (';'=8 . 4 !
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'(? @(! 4 Z '1= ?! @(! ,Z !) K 41 37 '567' 48 ;' ' (8 '5 84@ 45 '=5(2" ' (55'(
541@4 ! B =5 2';4 24 ' :78 ?4 ; (78'8 4 ('@5;72'8 67(8 ?=; '88'1 " %' " ;=5 41575 (5 '67'88'&
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'672?41 ' ; (8 (1 4 (58' 48 ' '&' ;=2(' @ =@4' 27'? ' =8 '(' :L41 (2" 41@= 4' 55=' =1 !' ' 7 ' '5' (;' =' ?4' %' (' ';='(4' =!' 99''' ' 4?!' = 4 Y ' @(!' M ' 7: " = 4 '58' '5' 5= (' ' '5672 &K' s7(=' 49@4?' '=57 (' (55=' K' 3 28 " ' 8 8'?'(' ' (' 4574 4 ' (' 2= (' 7: " 575 ;' 48 ' / #7@ # 7 B' t ; !' | (?41 ' <4 4' 5(('] = ?=578' '5' '54 ('=' 84@ 45 '=5 ?2!

@'7'=545 ' ?4' 1= '4(5(' ! (* ' ; '2' = ' '54' ;=5 41@84 75 ' 884 '78' 4 E (A78 ' ;=5 41@8' ' 1 4 ' =' 4 ' @ '178' 67" 4(5' 1 45 = (' 5 ; = '%' A' A' !' (';'"' '5' '(?4 ' U7" 4(1' 49' 8 = ?(' '5 4 @ 4 ('=54' =5<488'=5'8' !' (';'" w (1' ?X ; 2(d OA' s7'?(1' B'567' ' H8C' !' (';'7 1 ' 49' 7?(4(' ?' ; 75 ' = ' '541' ?59' t 84' 5(1' K @=8 67(1 =1 !' 5=8 4 ! !@ 4'8(27 4' 0 7 1 (5" 454 '8' @(8878' 48 ' . =1 (558' w94 ;' 58' '5' 5' '=541' @(88'=5'8' K' 5?A(1' (8 (' ' 4 ' 7?A" '5' ;(@ ' ' (41' ?4?54 ' ' @4 ' =1548' 4' (7 1 ' @(48' ?'8@4 8" 8' 1 !' ' 4= '' (' [' @ (8' (@5?' ' =548' 1 4 ' ;=8' 455' ' 49' 67(' i !' (';'7 1 ' 5('=541 ' ?59'884' <4 7 ' N 67=?' 49' ': '8' @'8 =&' K' 2(5 1 ' 6''=8' '@84' ;=1@=8''' ' '5 422' " @= 48 ' 7: " ?' ; ') ' % # ' ' ' ' 1 ' ## # ' %# % # K'% ' # ' ' 4?' 4 '78' (1 45 ' 4 ' ;4 '78' 48 ' 67=?' ?4' '2' (' ?'8@4 8'=54' ?' ; ' ' 67(1' ' =548' (' . =1 (5'8' K' @4 @488" 875 ' ' (' 7 ' @(8' 4= 7 1 ' '22(1' 4 (1' 67A' 1= ' ; (' ?' ; ' 7 ' G79 (' 1 (4' 7'## , ' @=88'?4 4 !) ' K' 9' '2' (' 4 =' ?'8@4 8'=54' % # ' 3 ' '5' 4 '=541' # @ ' @4 49; 77 ' '5' 67(' 4 (' ;=5 ;4@ 78' 4 ' 5(78' K' 48 ' !' (';'78 ' '5' =@@'?=' # 5=1 '54!Q' '(? ' @ ' -!

=5' ?4875 ' (1 45' 67" 84' '5?=; =8' 3(:45?=8' @7 (5 ' 5'8" (' ?=; '8' ?'8845 '(5 U' '?4=674' (1 (55(1' '5'] (22' (' 3(5?' 2=5 4' w" w2' (5 ' (' =5=5'(' = '5=1 1' ?'8 (5 41 ' 4884' !' (';'" (:4 52(1 ' 4 ' ' !' (';'" 1 7 (5 48' '5' " ' 5'3'2' (2'7?' 4884' (1 '2(5 ' 67(' 7' =5=5'(1' = '5= 5 1 !' 5 4 ' 1 ' ?'8 (5 '(1' ;4 (5" '5 4 ' ?7(8'] (' ''4' ;' ' (48' =5=5'(1' 4 ' (((55(1 ' 1 '(''7 1 2 ' ?4' 67(%(248'78 ' '5' =? '('] (22' (7 1 ' '565' ' K' (((55(' :8!' 6 ## ' 48 ' B4 =' 5=5' (?' = (1' 1 ('8C' (' @= 7'] 488= '(=4584' B'!4!' (' =5=5'(C' 1 '22' : 78' K' @(8877 1 ' 9 '''!Q

s7(1' @(" @45?4(5 ' ; '@ = 48' =@ ' 1 "] (22' ; (5" @ A 458(1' (?' '=541 ' ?4' = ' '54' 1= '4(5(' !' (';'' ' 42' '5?4' @(4 ' 67=?' 4G78' 2= ; 7 1 ' 5((241' ; 7 1 ' . 47 L= ' X<X (5 ' (?' ; (8 5 1 ' 55: ' (5'; 7 1 ' ! OA' (5 ' K' 5X' 4 8' f (5' ZZ' 45' ;=884 ' (7' 4 ' = ' 4' ?4' 2(' '224' ?I ! 6 t ' (7G=7 ?37" 5=1 1 X' $#6 ' (' I (4' ?4' 84' 4' K' (58' '2' <7 ' 41 1 45X' ; (@ '<' 45' 2(5?4 ' 4 ' L' ?4 1 47 d ' -' =7' ' (58 ' @45?45 ' 248' 67428' '2' (@@ ' ' 2(' 2(5 74' 4 ' 248' K' 1 ; ; 7 8' ?7' @(L8!' 48' L (48' f (L(5 ' 1 45X' 45'] (724' 4 8' 2I (5!' ' '2 8X5' (22(' (7' =5(8 y 4' ?4' !' ('5U' [[;I48 ' (' ?' 4' (' + # # ' L' 4e7 ' 2(' =587 4' =5(8 '674 ' 4 ' L' ?4 1 47 (' ='8' (58!' 2' 4 =7 5(' ?(58' 2(' (5?' K' 4 (54 ' @7'8' '2' @(88(' 45' (2'4 Q' t ; !' 247 " 0'8 !' ; ; 2!' =!' ('8' Z , - ' !' 49'4 1 4 ' ! , ' @!' - !

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22F-' 0 -8-' 1#2#F-' JH E##' F#GH 8EH ' # 8 ' 8G F ' +8 2#-' # 8+ # 8' ,28G8' # 8 #-8' #F-Y' ,KAY' #-' XX I ## ' E 88' JJ#!U -' 8- ' ' JH E# ' 1#2# ' E8#0 # -8 2 JH' 8G8' G8 # 8' SF#' F J' # ' 8X#2# ' 8+ ' 8X' # 8+ # ' 8 ' # 22F-' -1+ 8 F-' 8+ ' # ' /+ J# ' E8F-' +G8 8F-' E#J F-' 1#2#F-' 22#' SF +F ' 828+F ' 8X' 1F# ' --#2# 8' 8 ' +8 2#-' # -' 8 ' E1+ JHF-' 1#2#F-' +8#' 1#2##' FG E##' 1F# ' 8X' &8- # -' # ' 8 ' F- + 2#-' # 8' +8G 8' # 22 ' H J

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B ,C' 0(4;' '5?';(5 ' 3''G78' 3 =5';' ('';= 41' <7'884' 4' 0=1=5'458':78' 67' 5'8' ' 4 ' (1 '8' ;=(; '' ':7 71' .4 ':58' = '58' 0':41'(G' 8=2 4 4' 4458(:(5 ' 8674'(?' 4 571' = ?42:(;' I =5=' 884;5'=' 9) '(2278' = '&' =:848' ?'; 78' 48 ' 67'(' (' 5= 41' = '5;''8' =:8'?48' (;;4@' !' =2 (5' '5' 2(?4 ' @(!' M!) G78' '5' '(' 4<4 ' @4 &' @4 (1' 884 !' (?' (55!' ' '5' 5?';4' 3 =5=2!' 4 ' ' 4 71' '1= ?!' @!' '4 ' ' 4 71' @!' Z !) 4' 4=' @2'' (' <(:5''8' 4<4 (U((*] ' (2?58 ' =@= !' 0':!' ! ' !

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75;7271' 4G=8' !' ('571' ?'5' ;=15'=(884' 8; ' : ' ' 7'@';'78' '5'%' (' 4G78' ;!' !' 4' 8= (''8' =5(;3'8'
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BZ C' (145' A' ' B' 49 (' '5' 3(;' ' : 2'= 34; (' =V4584' 8'172' ;71' (2''8' I 24 ''' 4' 5=?R5' ' (?' 3(5;'
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5'84' 67'' @ (4?';(5 4' (';'=' <'?41' 3 '8 '' (1@24978' 48 ' <5' ' = 4'' 49' (?< (;3=' 4@=8!' (4 4 4(' (3'(8 '
72 '178' 35';= 71' 4 71' O ' : 4 5'(4' 141= (7 ' '5' (%1'54' '5;'@'45 4) ! '1 ' ' - O - ' . ' . B'
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14'' 1(57' 8; '@ (1 ' 24 =' '5' 1('54' 4941@2('8' =V458'8' L '(4' @(!' ,!w)K' # ' 'M 6- ' ' '
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@ '178' . 49' 3 '8 '(578' =1=5' z ' <' ' ' ' = 4'' 49' (?< (; : =' 4@ 8!' =5' @= 7' ' ' (674' = ;78' (7?(4 78' 4884'
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75((? 99''1 84? (9' (? 99 % ('' =1'5';(8 (8;3(248 5714 (4 ! .=1(551 '5 =?79' '5 O':4 &
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K % # 72' 4 <4;' '5 67=! 75((9' B24 4 9 'C 78674 (? 99''1! 4 52(' 4 4 167'7=; 11 (9' #(2!
K @ '' =:84 (7 Q @(! ,! =5<4 4?(4 O'8 ! !, ;! , ! ;! ,- %- ;! ,,!
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71 (4 ;7278 4?' 78 (7;34 '= @ '1= ;=58; R@ 78 <7' 72@';' 41@= 4 7 '5 7;2'4 ' ='55'@5 ! '5
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O':4 5';' L;2 (55= 71 (4 4 4 ! (';' L;2= ?' 4 8' 5=5 =:8;7 (84 ?4@ 4345?'884 48 ' (?4;'((
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142'78 4<<';4 4 @7 (:('8R < (':78 @4 87(?4 4 5=5 (2R71 <7'884 7 '78674 ?'5'8 L;271 67(1 .=1(571!
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&!& 55=' (145' ';(@ (1' <7'884' ' ` # ' ' @ =' (?'54' 3 =5=2= ';=' 8 (745?71' 48 ' 7 ' '5'
=8@4 = ' =; (4' '' ' ' = =1!' '9 ' ' =8 ' '' ' M' 4 ' !

'   & ' & '

F- + 28-' / #J -' E' 1#E8 ' J I8+ #--8' E#J# o+' # # F-' F' # 0' F 28+#' ; # #-' ! ! ' 8 ' 2##-
< --# ' ! 8E' 8J' 8EV' 8J' 2#F-' 2#SF#-' I8 F-' FJ +' 1#E8' E#G F-' ' $#J +F ' F-0
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8 ' H+ #J ' $#J +F ' # ' -#28 ' E8' $#J +F ' J I8+-# 8' 8 ' E8' # # ' ' 8Ew
I8+ ' -F @M' F- + 28-' $#J #' F2 ' 8' , ! ' 2F w' EI8 F ' 8X' # 8+ # Y' 8 < +8'
M' ' , ' +82#J ' 8++ +8' E 2 +#W' 1#E8 ' I8+# #-' JJ8<8+F ' <+wE#J 8' 8#-' I8+ F '
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M' 1#E8 ' 8 ' - 8+# ' I8+# #-' 8E J F-' JFUF-' ! 8E8 ' <#-J < 28)' +!' ' ' <#' # 8'
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M' F J' G2 +F ' G8 -' # 8 ' : F#' 2 JF-' E' $+ I# J# ' 8 #J# +F ' <8+ # 8 - ' IF2G '
M' I F+' E' /   ' /   ' 8 ' SF E' # #' JJ28-# ' E8' 2 <#E8 ' # - 2# ' +# # F-'
M' +8' 18J8+# Q' , _BY@ SF8' ' #-#' E , ' -J+# #' 8E ' E8' J I8+-# 8' $#J +F '
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BZ C' 4?!' ! ' ' !) ' 484' ; (5 ' =1''8' 4 ' ;;248'(~' ' =571' 4 ' O':X 5= 71!' ;;248'(8' ;=58 74:(5'
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'5' . 4 !' O':4 5!' ! !) 9' = ' =8=) 4' !' (2(;3'^' ;;248'(' ''545 4' !' 4 5(?=8' '567') K' (= '71' ('
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BZ-C' =5;35: (5' '5' ' (' =5455A' '8' 4' =?V455A ' !' 67(' 5522(1' 4 78 '= 41 42' 4?' (1 ' 42' !' < = ' '
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7:' (5578' @ '158' @'8;=@(78' 4G78' @4 @4 (1' 4<4 7' (?' (5551' , !) '1' ' '(' 14 (;3 =5'81 ((' 5= (5?(' 875 '
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B C' ?' ?X;2((" '@84' (?=5';78' 84' 5(71' ?';458' (55=' =:8488'=5'8' 145 '8' (?=5';'' '!' 4!' ! !' -, ' 7' 87@S @7 d' 49' (52'67'= ':''8' (3A''8' E48 1!' 87<< ((5 4' : =5= (@3=' 4 4 4' ' (55=' (@''?' 884 !' @!' ,!' 7=8' ' (674'] '2?(8' '5' 7571' ;=5?(4 75' ((?=;78' '5' %' ('] '2?A' 4' =3(5548' (' =8;=' '5' ':2'= 34;(' 2= '(;4584!' 75' (145' 67" 5=5' 5'8" 7571' =275 ' 84?' 5722(' (2=54' (2'((' @ A 4 67(1' 67=?' '@8' '?' (884 (5 !' 448' @24 71&' 674' ?=; '5(' 7:" 5=5' ?448' (7?(;'(!' 5?=; =8' @7 ('' ' 67" ?=; =8' 84675'' 7 !) 4' 4 = 4=' '?4' (55!' !

B ,C' 55(248' ' :'88'= 71' (' @24 '8674' ':4' 4;(5' (:' 884 '=' ':4' 2' 75 '558' ?'; 58' ; 4: (8' ;= = 71' + 49' 0':4 5'(' '5;7 8'=548' 4 5(5 4' (3'(' ;=5 48 (5 7 ' 7' '5' 2(34 24=' @(!' !

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' D) HD)#2 c #- 8' #m ' _' h 2F)# ' SF ' # F#--8 ' 8G ' # 8+ #w ' 8 '
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<'2'=' 54@= 4 1 ' =;3=?'7 1' 45' 1' ' <'2'=8' 3(:7'884' 49' 75(' 79= 4' + 8 ' 4 ' <'2'7 1' '(227 1' 49' ('55('N '
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B C' =;''1' '5?';('' '5' '8 =' !' 2(34 !' @' !'
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R5 45 7 1 ' (;' 787 1' 5= 4 (' ' (654' (:' 5(4:= 4 '8 ' '45 (''7 1' 1= 4'%' 45 ' 78' 4 ' ;(1 @(5(8 ' (2'(8674' ';8'
(; (8 ' ': =8' ; 2'48(5 =8' ;78<=?'45 2:58 ' 3(:' (:(5 5 'N' 5'@= 4' 4' @4 (' ;=58 (; " (:' '1=' (?' 8755551 ' 67'('
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CbU:ˢ @bU;3 ˢ Zˢ bU bU ' ˢ :'=@UbU:: F+ I#ˢ 8 # ˢ UF-UF+ +#E#F ˢ -FF ˢ <8+ˢ

DD## Y I#F # ˢ <ˢ 2D## Hˢ <ˢ D)ˢ D) H U2 ! 28 ˢ 8ˢ F ˢ ˢ 8X J F+F ˢ -8ˢ F ˢ

h # Hˢ D)JJD)JHˢ _ˢ <ˢ J 2# ˢ +# F F ˢ ˢ G8 #{ -# F-ˢ < - SF ˢ J <0ˢ

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45' 5'ˢ':!ˢ@!ˢ, ˢ;!, ˢ '567')Kˢ 4 49'ˢ !ˢ (';R78ˢ'5ˢ ;;'?45 (2;52ˢ @'((1ˢ =55(;3 458'71ˢ '!ˢ4!ˢ
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45 '(ˢ 45'ˢ(?ˢ471ˢ t;!ˢ ˢ?'9'ˢ4ˢ (';'78ˢ 7ˢ5= ˢ4 '8ˢ.49ˢ4ˢ49ˢ 4ˢ5=5ˢ4 'ˢ.49ˢ78654ˢ(?ˢ;=1 1='=541ˢ
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Kˢ =1'5=ˢ@4ˢ (';'71ˢ4ˢ:(@' (ˢ875ˢ49;4@=ˢ ;3'5=Qˢ t;!ˢ (145ˢ'1 14?'(4ˢ 1(2 (?'=ˢ5=5ˢ87;;488'ˢ
7(;27'8ˢ 84?ˢ ˢ+ 6ˢ78674ˢ(?ˢ(55! ˢ4ˢ 754ˢ (=; (8) .4 '=ˢ =56(;'Aˢ 67Aˢ(:ˢ 5 2'8ˢ # # 'ˢ
?';' 7 ˢ?';' 7ˢO':4 5';4ˢ #@ -] ˢ(:ˢ 5(2 (?'=ˢ'8 4!
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@=87'884 ˢ 75?4ˢ 6541(?1=?51ˢ ' (55'(ˢ 5?145ˢ 5 2'84ˢ (:ˢ 5 2'8ˢ (8871@8' ˢ 81;5'=ˢ '9 ˢ 4 ˢ] (2''(ˢ (ˢ (5;'8ˢ
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' (55'(0 ˢ ;7G78ˢ 5;=284ˢ O ' : 4 5';(ˢ 2'5 7(ˢ 7 4:(5 7 ˢ ;= 4ˢ 5=1 5ˢ (887'5@8' ˢ ! (4;52=ˢ 9'!ˢ U
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ˢ ˢ !ˢ I ˢ ˢ +!ˢ # !

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ˢ Rˢ ˢ +T 2 ˢ ˢ ˢ ˢ / ˢ ? !ˢ & ˢ K , ˢ

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A. C.

474 Aois Cr. ceithre cedo seachtmoghat a cethair. A se dec d Oill. Eirc mc Eoch. Muinreamhair decc. *IV Mag.*

Anno 474, Olildo Reges 16. (72) Ercus filius Eochodii Capillorum fortium obiit. (73)

Mors Conalli Crimthani filii Nialli. Chron. Scot. MS. Dublin.

475 Conall Cremthainn mc Neill-naoi-giall, or chinset clanna Colmain 7 Siol Aodha Slaine decc. *Annal. IV Mag.*

Anno 475, Conallus Crimthan, filius Nialli Novi-Obsidum, a quo originem ducunt O Nialli *Clan-Colman* dicti, et progenies Aodhi Slanensis, obiit. (74)

479 *Muredachus filius Foirgæ de Dal-Fatachorum familia obiit.* (75) *Hic est Muredachus Muingdearg, de quo supra ad ann.* 474. *Ejus obitum referunt*
480 *pariter IV Magistri ad ann.* 479.

Chlodoveus Regum Morovingeorum quintus, regnare cæpit hoc anno, vel sequente. Art de verifier les Dates, t. 1, *Petav. Doctr. temp. l. xi, c.* 51.

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(72) Qui Laogario annos xxx tantum tribuunt, ab obitu prædecessoris Dathiæ, et ab anno 428, necessario obitum ejus referunt ad ann. 468, Olildi successoris initia ducentes ab anno isto, ut faciunt IV Magistri, qui ideo æram com. anticipant annis iv, Olildi 16m. numerantes Christi 474, et Prælium Ochanum referentes ad ann. Christi 478, pro 483.

(73) Giraldus confundit Eochodium hunc *Muingreamhair*, Erci patrem, et Dalriadæ in Ultonia Principem, cum Muireadacho *Muingdearg*, Ulidiæ Dynasta, de illustri domo *Dal-fiatach*. Topogr. Hib. Dist. 3, c. 16. Vide infra, ann. 479.

(74) Conal Crimthan et Conal Gulban filii erant Nialli magni. De Gulbanio jam notavimus Principum Tirconalliæ satorem fuisse. Crimthanus tempore S. Patricii late dominabatur in Midia, ut patet ex Vita 3 S. Brigidæ, auctore ut putatur Ultano, cap. 64; ejusque filius Fergusius Cearbheoil ei successit. Fergusii filius Diarmitius Cearbheoil, celeberrimus totius Hiberniæ Rex, tres habuit filios, *Aidum Slane*, Colmannum Magnum, et Colmannum parvum, quorum filii et posteri, de regno tam Midiæ, quam Hiberniæ totius contendentes, bella cruentissima gerebant inter se. In Annalibus nostris *Clan-Colmanni* appellantur, quia Progenies Colmanni Magni; ut in IV Mag. Annal. supra, ann. 475, itemque *Hi-Nialli*, sive *O'Nialli Australes*, utpote in Midia dominantes, ad distinctionem O'Niallorum Borealium, quorum Regia erat *Alichia* in *Tir-Eogania*, sive *Tironæ*.

(75) In Vita tripart. S. Patricii, parte 3, c 63, hæc leguntur—" Eochodius Muredacii filius, de Dal-fiatacurum familia oriundus, tempore S Patricii Rex Ultoniæ," (lege Ulidiæ) &c. Colganus in nota ad hunc locum inquit—" Habeo tres Catalogos Regum Ultoniæ, a diversis scriptos, in quibus legitur.—Muredacius " Forga Dallani filio, e Domo *Dal-fiataciana*, natus, regnavit in Ultonia annis 28, Eochodius ejus filius, " annis 24, et *Carellus* alter ejus filius, annis totidem, et postea numerantur 35 Reges Ultoniæ (lege Ulidiæ) ex " semine hujus Carelli prodeuntes. IV Magistri etiam tradunt obiisse anno 479, et Eochodium, ejus incredulum " filium, anno 503, et Carellum anno 526, Triade, pag. 287. Muredachum hunc *muingdearg*, i.e. Crine " rubrum, confundit Giraldus Topogr. Hib. Dist. 3, c. 16, cum Eochodio *Muing-reamhar*, i.e. Crine forte, " Dalriedæ Principe, de semine Riadæ filii Conarii 2di Regis Hiberniæ, qui fuit Pater Erici, et Avus Loarni, " Aengusii, et Fergusii. Posteri *Muredacii Rufi* vocantur improprie Reges Ultoniæ. Sæculo enim vi a Colla- " orum posteris, Orgialliæ conditoribus, et deinde a Niallis, universa fere Ultonia subacta fuit. Rudricia ac " Dalfiatachia gente intra Comitatus Dunensis terminos conclusis, cujus ditionis Principes Dal-fiatachii, non " Ultoniæ, sed *Ulidiæ* principes appellantur." De *Riada*, vide supra, ann. 214, et Rer. Hib. t. 1. Indices, voce *Riada*.

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##2E -' 2' 8X' # 8 #-8' JJ#-F-' ' F+J8+ JH ' 1#2# ' +J 8' #'8' 8G8' #0' 8+ # 8' # ' <+ 82# ' JH ' ,_KY' 8' ' FG E# ' 1#2# ' G +##' 8' ' $8+GF-# 0' 8 + H8 #2' 1#2# ' 22#' +# H #' 8' ' /# JH+ '18+ J8' 1#2# ' 821 H#' 8G8' & 2 0' + E#-8' F E8' 8J8F-' 1#2#F-' &8G#' J8J# #

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2D)' $8<!F<' ' 2F #2#' #) # @+28' 'J8<' #E#22#' <D)8<'n2#-
*C; ' #' [; ' ' i ' - ' '22'2" ' ;

G F '<+ 82#F ' JH 8' G8- F @9#F+ 'I 2E8' 2F- +# F-' <+ G2##-' 2#c-
8 + ' 2#2E## '1#2# '& H##@ ; #J +# '< + '8-'<8+' & 2 + E# -
$8+' FG E#F# '<8+' /# JH+ F '18+ J8 @8'<8+' +JH8+ JHF '1#2#F ' +J 8',_CY'
$8+'/8+GF-# '1#2#F ' F 22#' -F8 #0@$8+'#- -' JJ#-F-'8-' 212EF-' c2#-' 8>
'<8+' /8+GF-#F ' F2< #28 0@$8+' #- -' JJ#-F-' 8-' 2#2EF-' <+ J2 +F-' G2 +#

!' % #' J HF#<' 8' ' 1# 1#J' F)J' A2#<J' JJ8I##' ' ' !' # ') ' ' ' 'J8I##' N! ' '3 ' ' ' #- a' '+ # 2!' ' # - ' 2'' 'bU;3' ' 2D) 2# #<8' H+ '!J #' !'$F 2#

' 8 < +8' J +#' 1#22#' 8-- 8 8G#-' # ' F-SF8' E' + JF ' 1#2#F ' + HF+#' #' -F ' _' ' + J' F-SF8' E' H J' $+ 82#F ' JH F 'A _ ' -8SF8 8' #F# # ' 8G #' FG0' D E JH#' , FG E##Y' 1#2##' G +##',_LY

BZ C' (p2'GG8" 3=;' ;424: 4' 4<4 5' '5' 55(2!' 2 =5!'(?' (55! '4' 67'?41' (;;7 (4' 5'@(4' 49' 2(55" 8L5;: =5'8 5'8' 6'" (57=8' 99' '5 4 ;488'884' (' ' '@ (42'=' 3=;' (?' (? 45 55" < '= 7 " ;" '5' 2:(5'(5H!' %'?4' '5< (' (55!' !' s''(7=' ('8 " (1 45' 4'U'' '65" s 2?" '5' '(' ?5455'(:' (55=' - '@ (42'15' 4:(551' 4' =:'51' 2'2?" 4<4 4' ;= 75 ''' (?' (55!' Z)M' 42' !' %'?4' (55!' - '4' !
=' (578' 67" %' ('8 =8' 7:'674' 8467' '' '?4' @ (42'=' ;3(5=' 8';' 8; ':') K' 55=' Z' 2'2?58' ' ' = ''=&' K' 145 u' + ' ('?'8' B24 4' (3'(GC' . 4 '8' <' 58'@=8 6 '(1'(55'8' 99' '5' O':4 5'(' 4 5(884 ' '5' @ (42'=' ' A'=;;7:''' '@4 ' '' (?'51' . 4 '8' (= ('" <''51' '5 4 <;; 78!Q' p(?4'@!' ,!
BZZC' 41=(7' '+ ' ''5%' (' =2 1:(4' '5' p(?4' ! ' ;! '@! '4' '!' ' ;!' Z' @!' !' G5~' =:'78' 4<4 7 ''5' %' (!' 55(2!' (?' (55!' !'--^! (654' (145' '8 5?' (?' (4;5'" "'5' '(' 4'4 4 ?51' 48!
BZ C' + ' '?';' 7 '(' 1(4' ;(' '2'(' =(1''<'2'" ';'' 54@= '8' 7 ' + -@# #' '5;'@'8' O(2 '4?44!) 5 (?'=' (= ('" <'2'=' ?4<75; ='(55=' - ''5 4 4 571'8;65' 7 '(=5= 51' - '78674' (?' (55!' - ' 67=' 87;;488'' + # ' ' #
BZMC' 4' 7 (?'=' 3=;' '?4' 87@ ('@(!' 22 '4''5< ('@!' M!
:'51' 4G''8' 4<4 75' %' (!' 4' 49' 4'8' = (5!' (?' (55!' - '@=8' 4 551' (55= 71' 99 '(' @ (42'=' ;3(5=

!ʻ ʻ " ʻ ! $$!

! !

BCA 9 ʻ !ʻ I#7 #JDD# ʻ # Jʻ #D) ; F2 F-ʻ +# H #ʻ 122##ʻ E -ʻ # -82 0ʻ

ʻ ʻ ʻ ʻ !ʻ JH##ʻ 8G#-ʻ G8 # -#ʻ <8+ʻ JH E#F ʻ

.F# 8D)JHʻ ʻ# Hʻ YD)#s JH8ʻ _ʻ 2 ʻ Hʻ ?A21 D)#KHD)ʻ "F# 8 JHʻ E8ʻ #ʻ +JH##-ʻ 8 ʻ <8+ʻ + E# -ʻ

J2 JH ʻ 8 ʻ 8D)JH #ʻ f I; F#m J8 JD)J2# 2# JH8 -8-ʻ,C Yʻ $+# F ʻ<+ -2#F ʻ " + #0ʻ

"#ʻ D)<JD)ʻ " ʻ @ $ʻ 8#28ʻ # ʻ .<D)# #8ʻ 8 -8ʻ # ʻ SF ʻ F+J8+ 8 F-ʻ 1#2#F-ʻ +J-8ʻ

ʻ J#U#ʻ 2D)# H# ʻ # #m ʻ 2 # H D)# ʻ 9 8# ʻ I#J +ʻ 1F# 040$+ 8 #F ʻ 2 8+F ʻ " + # 8 -8ʻ

ʻ)ʻ ?m<# J DD ʻ `4ʻ D)ʻ # #)D)2 # Hʻ Gʻ # ʻ +8G# 8ʻ G8 #-8 ʻ # 8+ʻ G8 #8 -8-ʻ

! ʻ wʻ J ʻ 8ʻ 1 <I#8ʻ " ʻ !ʻ #<- -ʻ # ʻ SF ʻ / # JH EF-ʻ 8Xʻ #0 # -80ʻ

H+ ʻ ! J ʻ ! ʻ &F 2# 2 8H#-8ʻ J8J#E# ʻ 8 ʻ JH E#F-ʻ 1#2#F-ʻ +0ʻ

+8#ʻ I#J +ʻ 1F#

BCAʻ ʻ ʻ % ʻ ʻ ʻ ʻ , ʻ ʻ

? ʻ / ʻ ## 2ʻ 2 ʻ WWW ʻ BC ʻ ~0 ʻ !

92 ʻ 2F-2 ʻ 8ʻ 2 HD)#<8ʻ J ʻ 2 4 FG E#F-ʻ 1#2#F-ʻ G +##ʻ XX Iʻ #-ʻ

D) D)ʻ <#J E#8D) ʻ ʻ JJ <JH8D)<ʻ 2D)ʻ JD) <ʻ +8G I# ʻ F-SF8ʻ Eʻ # F ʻ JF ʻ 1F2 # 8ʻ

JH# J# 8ʻ _ʻ 8<8ʻ 2 <8#<ʻ <#D) <D)# ʻ ʻ J F-ʻ 8--8 ʻ SF Eʻ 8 I 8 # ʻ 8#ʻ <+ < 8+ʻ J 0ʻ

H8D) D) ʻ 2ʻ #-1 2ʻ ! ʻ &F 2# 8 < F ʻ ! ʻ $ +#J##

BC ʻ K ʻ * ʻ ʻ # ʻ ' ʻ # ʻ ʻ ʻ , ʻ

(55=ʻ Z !ʻ 4?ʻ 4 (5 48ʻ '5ʻ (55=ʻ =:' 5(24ʻ 4= (''ʻ 6741ʻ 4 P544ʻ 5514 (5 ʻ - ʻ '5ʻ 846745 ':58ʻ .4 71ʻ (55'8ʻ
(4 (1ʻ ;=1!ʻ (5 ';'@(5ʻ 8'1 '2' 4 ʻ (55'8ʻ 67(''=ʻ '5 4 '8!ʻ %'?4ʻ 87@ (ʻ @(!ʻ ʻ 5!ʻ - !
B Cʻ :' 71ʻ 2'5G58ʻ '1 3(5'ʻ 4<4 ʻ =2 (578ʻ (?ʻ (55 - ʻ 87@ (ʻ 49ʻ % ('8 '8!ʻ 1 :=& (145ʻ 451ʻ 3=;ʻ
(55=ʻ ,ʻ =;;'871ʻ ?4;'((5 H) (G8 (ʻ =2 (551ʻ ?4ʻ 3(;ʻ ;8ʻ (2':'ʻ '=6''X5 X1ʻ (5?' 4ʻ '5ʻ 5= (ʻ ʻ (?ʻ %' (Uʻ
(1ʻ !ʻ '' '?'4!ʻ 7; = %' 1ʻ '8 '78ʻ !, ʻ ;!ʻ ʻ '56''' OAʻ 6 ʻ ʻ -ʻ .49ʻ (45'1 ʻ 65'ʻ _' 78'51ʻ
Aʻ ''2'''1ʻ (?< (';3ʻ .4 41ʻ =1=5'458'71ʻ 674 5ʻ :(@ ' (''ʻ !ʻ (';'78ʻ =;;'?''ʻ ;71ʻ 79= 4ʻ 87(ʻ ʻ< D s
<'2'(ʻ '=1 2'('5ʻ .4 '8ʻ 0 'ʻ '5842(;:ʻ 4 ʻ (45'458'71 ʻ 65'674ʻ 2'2'ʻ =2 ʻ .4 41ʻ 0':4 5'84 ʻ '524 <4;' ʻ ; ʻ
Kʻ '@84ʻ 1= '458ʻ 84@7 ''8ʻ 48 ʻ (@7?ʻ !ʻ ' '?(1!Q
=2 (5'ʻ 5= (ʻ (?ʻ 375;ʻ 2=;71 ʻ '5ʻ '(?4 ʻ @!ʻ - -ʻ 48 ʻ 3(4;) Kʻ 4ʻ @ (42'=ʻ 3=;ʻ ;3(5=ʻ ('(8ʻ 4@4 '=ʻ ('71Uʻ
Kʻ 5; = ''1ʻ (?' '=548ʻ @ '1 (ʻ <(;'4ʻ 152 ''1ʻ ?'<<4 ;5 X8ʻ 0 @+ ʻ 45'1 ʻ ('8ʻ 4 ʻ 1(584ʻ (2'= ' U '8ʻ
Kʻ 0'8 = ';78ʻ 67'ʻ ?4ʻ .4 ':78ʻ 0':4 5'(4ʻ 3 '8 '(5'8ʻ 84' ʻ (:ʻ (55=ʻ ʻ 78674ʻ (?ʻ (5571ʻ ʻ 67=ʻ G'(1<'2'8 = '(1ʻ
Aʻ (:8=2 ' ʻ <'?42'88'14ʻ 8; '@8' ʻ :(5;ʻ %'; = '(1ʻ '8; ':' ʻ = (?'=ʻ <'2'=ʻ (= ('' ʻ '114?'(=ʻ 2'2'ʻ '5ʻ .4 5=ʻ
Kʻ 87;;488= '!ʻ (5; 78ʻ 4 =ʻ ; ʻ 4 2ʻ <'2'78ʻ '5ʻ 67=?(1ʻ < (145 =ʻ 87'ʻ =@4 '8ʻ ?4ʻ .4 ':78ʻ 0':4 ('84ʻ ;' (58ʻ '5ʻ
Kʻ 55(2!ʻ % ('8 !ʻ (?ʻ (55!ʻ Z ʻ '; = '(1ʻ 4 ʻ ;1?41ʻ 3(5;ʻ ':7' ʻ (2((?''8ʻ 67'ʻ G79 (ʻ (2'=8ʻ 45 (ʻ 87=ʻ #4 4ʻ
Kʻ '(; '=ʻ '22'ʻ @ 1 '=ʻ '5 4 <74 75 !) ʻ &
Kʻ ((2= 58ʻ (''41ʻ .4 71ʻ 0':41'(4ʻ (5 3= 4ʻ 5=5L1= ʻ 49ʻ =?';4ʻ I (2;3=5 '(5= ʻ 67'ʻ @4548ʻ 14ʻ 49 (ʻ
Kʻ 5=5ʻ <(;'458ʻ 145 '=541ʻ # ʻ 42ʻ 1 (?'' ʻ 48ʻ 4<4 ʻ '22'''8ʻ %'; = '(8ʻ @ 1 ;'@7=8ʻ (5 3= 48ʻ ' ( ) B 2'2?58ʻ
Kʻ =2 ʻ .49ʻ 0':4 5'84 ʻ <'2'78ʻ ʻ <'2'ʻ . # ʻ <'2'ʻ ʻ =414?=5'' ʻ @=8 65(1ʻ 4 5(884 ʻ (55'8ʻ 99 ʻ '5 4 &
Kʻ 41@ 78ʻ 48ʻ @4 ʻ 7 ;34 (;371 ʻ 4 78'71ʻ 4 :34='2ʻ 4 ʻ @4 ʻ '(;3 '71ʻ =55ʻ =42:(?''ʻ <'2'71 ʻ .4 4 (ʻ
Kʻ (2((?' ^CU%4 71ʻ 5=5ʻ ?;877 ʻ (2''ʻ (48ʻ (7 3= 48ʻ 67'ʻ 3(5;ʻ %'; = '(1ʻ '1 3(5=ʻ .4 'ʻ (4'2'(8ʻ (':575 Nʻ
K 7 ʻ @4 4 78 78ʻ (7 3= ʻ %' 1ʻ !ʻ # '4 (5'ʻ ;!ʻ ʻ 6741ʻ 8467' '' ʻ 884 !ʻ @!ʻ ,Mʻ 4 ʻ '5ʻ 5?';4 ʻ (55!ʻ !ʻ ?41ʻ
[[48 (27 ʻ (= (''ʻ =4 (ʻ .4 '78ʻ $ ʻ EM - # ʻ '8;'@7278ʻ !ʻ (';'' ʻ 67'ʻ <7' ʻ @ (48458ʻ '5ʻ '8 =ʻ @ 42'=ʻ '5ʻ
ʻ Kʻ @78;724ʻ 67=?ʻ ?4ʻ (; '8ʻ 4G78?41ʻ '1 3(5'ʻ 8; '@8' ʻ 4 ʻ @4548ʻ 14ʻ 3(:4=!Q
0=8ʻ (7; = 48ʻ ;=5;'2'(4ʻ '1@=88':'24ʻ 48 ʻ (2' 4 ʻ 67(1ʻ ?';45?=ʻ '1 3(57'@ʻ 5=5ʻ =:''884ʻ (55=ʻ -ʻ 84?ʻ @=8ʻ
@ 12'71ʻ ;3(571 ʻ 7 ʻ =2 (558ʻ '@84ʻ <(4 7 !

% ! ' ' " ' ! % $ $ % ! L

+ *

T ' / ' # ' # ' ' ' B' 4 ' ' # ' # ' BC '

' # @ M' ' / , ' B ' ' ? ' ' <#+g*J' ' A2#<J

$ # ' , (' ' J J J I ### ' ' / ' ? ' ' ' , ' JH8' J X I #

M' ' FD) D)' ; F , C Y

D;' 8 ' 7 # ' ' ' , CAY' ' E ' ' " # ' BCB'

' , ' ! V * , ' ' ' X J ### ' ' / '

' / ' ? ' ' / '' 4 ' ' ' 8 '

8 ' E ' ' ' U ' / , !' !+ ' !' I!

+!' ' ' ' 8 ' ' , ' ? ' + !K ' ' " " ' ' BCC'

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+ !K ' ' ' `m C ' ' / , ' ' + , ' , !' $Bq2(' + ' BL ?'

, ' # !' , CKY') ' , ' _' ' ' ' % ' ' K '

!' CCA ' ' " ' / f !

B C' 55(2!%2 !' (55! , ' 04C A;! ' 884 !' @!M Z , !' 714 "' 4 1 45?(5?'G59 ((55=8'5' 1 ('54!'
3 =5';= !' ;= = !' !' 7:2'5 '3A;'3(:4 ' (?' (7351' 375;' &!UK' s 7'48' !' '(5(5" ('1 2'(' ;7" (';'(8
K' (5 42'7 1' 877 1' 2(' 78' 48 !Q) 4' (5 42'@' !' (';'' ' '?4' 4 !' O ':!' ! !' @!' - ' 4 ' ' 4 ' '5< (' @(!'
, ' !' M !' 7 1' =55(;3 458'8' <54 ' ' 42' '(65(;3 458'8 ' 5=5' 1= =@!
B ,C' '1 = ? ' @!' M--!' 55(248' 2 =5!' 4G78' =:' 7 1' 4<4 =5 ' (?' (55!' -ZZ ' 42' G59 (' (2'=8' - ' 67" (55" 855 '
U A ' ;=1!' -Z ' 42' - ' ?'4' 4G78' 5((2" Z' /&! '; ' '5;'?45 4' '5' =1 '5';('5' '5' 5 =674!' '48' '8' 1 4 1 = (7 ' '5'
H' 4 78 '88' 1 (' ' (' 4G78' (@7?' 884 !' @!' - ' ' 4 1 674' '5' %' (' (;2= '"'5' ':2'= 3!' 2= '(;!' ;!' ' 4 ' ,!=
B C' :'' ' G59 (' 55(2!' 2 !' (55=' Z ' A A' !' ' G59 (' :1 5!' ;=<!' !' (55=' ' A (1' !' (5 ';'@(58 '
(55'8' !
B C' % 78' 7; = ' %' (4' 'A' !' (';'' ' ;!' ' 47 1' (@@422(" K' - '1 ' '1# B) %' (!'
=:' 7 1' 4G58' 4<4 =5 ' (?' (55! M!' '1 (8' <7' ' . 49' 3 '8 '(578' =1=' 84!' %'?4' '5< (' (55!' M,!
'H -C' (' 884 !' 49' 4 78 '8' ' 4;3(5=' '5'=' =:= ' (3A=' 2= '2y 4' 4 ' (2''8!' %'?4' 87@ (' (55!' Z,

B C' . 4;45 '= 48' 8=5 ' 67" '5' 75=' 84@72 5 1' 8;'?:55 !' @5?'] 2(8 ='< 45848' 84@52 5 1' (? 5 ' 67" ;= 5' 454'
(';'=' 47 1' ;=5<55?75 !' (; =8(5; (1' (@5? 2(8 =5'45848' 4G78' 1 4 1 = '(1' <7'884 ' '5?';(5 ' B :(A' (2? 4?' '
5A ' 4 ' (2? 4?' ' '1 = ?!' @!' ' 4 ' - ' 4 ' ((2= 58' 78' (5; = 7 1 ' ':!' @!' !

!' ! $ $ ' / !

! ' ' " ' ! % $ $!

& ' & ' ! ' $

8+' $ +#J## 1 #2# +8-' F 8+ EF-' 8-' ! ' P # 2 JF-' +# F-' SF# ; # '
- #J ' G8 -' # ' # 8+ # ' # E8' + -#I#' # ' +#J '] ' B ' SF8' # E8' # '
-F2 ' SF E ' F #' JF ' - J##-' I# ' +8 # #JS ' +#8 # ' + -8G# ' SF# F-' <8+ J #-'
J ' 8X +8 8-' I # 8' -' # ' F+ J ' ! 8+# ' 8X8G# ' 8 ' <28 F-' E#8+F ' "' '
' ' ' " ' # ' <+# ' H8 E E ' SF E+ G8-# w' [^' SFw' w' - #-' # E#J '
! ' $ +#J## J wI< ' 1F#--8 ' 8 ' ##--8' ' . B

X ' ; # ' 8UF-' #SF ' 8E# ' ' ! F+# ' ' A ' + ##' ' \ ' # ' ! ' # ' # '
8 SF8' <FE' #22 #F ' # ' J #-' ! ! ' #J' # ' 2# F-' EI8 8J8 -#-' - 8+##
<+# F ' E# +8 ' 8 ' 8 ' 1F#--8' G -J# '^' 8 ' ! ' $ +#J## 8 < +8' 12 +F#--8 ' F '
' 8UF-' J #-' F #' K ' ' " ' !' -F+ ' 8 ' +# F-'
8+ #J -' J 2F# ' 8UF-SF8' &#-J#<F2#' EI8 8J8 -8-' E' <8+#F ' F-SF8' FE I#J#' $##'
F #' ' #22 #F-' # #E ' ' < ' .

&#-J#<F2F ' H F# ' O# 8+' 2# -' +!' ' F ' # ' 22 E ' ' + ##' < ' A . L ' 8 ' # '
#22 # ' # ' < ' . ' SF#' # JHF-' 8+ ' < +# 8+' ! ' $ +#J## 1 #2# +#-' &#-J#<F2F-' 8 '
M' ' ' E >' 8 ' < - 8 ' -' - 8+##' & G G ' # ' ! 8 #' 12 # #-'
JF ' ' 8 ' # ' ' ' SF E' - 8+#F ' --8+#F-' J 1F##E# ' JF ' 2 8+ '
8UF-E8 ' # #-' # ' +#' JJ#E8 2# ' < ' CA . ' ,C_Y'R

8 + F+' 8 # ' ! ' $ +#J# -' # ' J #-' ! ' " 8+ +SE#-' 8E# #-' < +# 8+' ' #22 # ' 8 '
-J+#< #-' ' 8 ' SF#' 8 ' +#8 8' # 8+1F# ' F ' # ' 2 ' 8 8E ' ' < ' BBK ' , ? ? Y'
M' - 8' # F ' <8+' F F ' 8' 1+ +# F-' -F#-' {H#-' 3 ' , # 8+ 8 -8 Y' 8 '
M' - 8+##' / --8 -#-' E8' E#8' # F-' -F#' # 8++ G #' 228' I8+ ' F # ' +8-< E# @ E#8'
M' 2 # !' J !' A ' ' 'N' + - # ' F 8 ' E#8 ' # 8+' #-- +F ' - 28+ # ' H+#- #'
M' I#+G ' 8 ' 82#2 ' " 8+ +FE#-' E8' J +< +8' 8- ' #G+ F+ ' F--# SF8' F ' 8' # 8+8 ' -8E'
M' -wJF+ ' 8 ' 2w ' <8+G8+8 ' E' H+#- F ' ' 8 !' K ' 8 ' G82#-' & 8#' 8XJ#<#8 E ' JF '
M' G2 +# @ J' I #J# # ' 2w # +' 8#18J ' ' J 8 ' JF ' ! + +# F-' # ' $- 2 #-) 8 '
M' + # # F-' <8+I#G#28 ' EFX# @ & #8' -8SF8 #' & # #J ' E' H + ' -8X ' -1 k`# #--#4 F '
M' / ' / ' ' + # ' " ' <8+J8<# ' SF8' F #' ! J8+E -') '
L' ' ' , " ' J #-' & 8 ' G+ ##-' SF#' -8' ' #' J + #-' 2 8

B ZC' @84' 884 '78' 4 = 4 1 ' ; = ' ' ' @!' Z ' :' : A ; ' 4 : (' 49' !' 4?' %' (' @ =?7 ; ') K %45' ' !' ; ?58' (?'
K' 5872(1 ' @; ' '!4!' %(; ; A' 2 : A ' 67A' 48 ' '5' (5=' - ' 4 ' ; 7 1 ' !' . '=' ' 878 ; 4@' ' : : (8' 2= ; ' '
K' 2'=5= '<' ; 4) =5(8 4 '7 1 ' 45' 1 ' ; 2(5 1 ' '5' '22(' 5872(' 48 ' 67=?' 49' 5=1 '54' 587284' 5=1 '5(= I' ' 67'?4 1 ' ' ('
78674' : =?'4' (@@422(= ' 5872(' '5' 45(5=' <27 '=' '5 4 ' =55(; '(1 ' 4 ' 2'=5 <= ?'(1 ' '5' 'A ; 48' ?(; 3(?4584!
B C' 55(248' 454?' ; !' ! ' @) K' s 7' 2' : 7 1 ' ?4' 4G78' ' (' 4 ' ' (; 72'8 ' @=8 72(5 4' =1 '5' ; (' : : ('88('
K' = (674' 4G78 = ; ' ; =5 4 (=54 ' 8 ; '@8' ' =5(4 : 78' ' '(2458 8' (7=5L1 78 ' -# " ' 4 ' A65(2'8 ' '@8'8' !' 454?' ; H'
A' 4 : '8' (2'67(5?=' 7 ' 5 !Q' ' : !' Z!
5 4 ' 4 78 '= (' !' (' ; ' ' 1=57 1 45 (' 87@4 48 ' . 4 1 '8 ' '5' !' 4 ' =5(8 4 '=' 4 4 4 ' !' (' ; ' ' (; 4227 1

! ' ' " ' ! $ $!

8 ' -8+I I8+ ' <F+c--# ' +8 +#' # ' +8EE#E# ' X I' 9 28 E -' <+#2#-' M' XXX###' w #-' -Fw' `'

!J+# #' ' !'$ +#J#F-' # ' 18--# 8' -F ' -8' ' !J #-' F2 ' < --F ' J G# --8' +8 I8+ *' # ' " 22# ' M' F ' E8 F ' I#-# +8 ' 1+ +8-' -F -' 8 ' F ' I#E8+8 ' 1 J#8 ' ! J +F ' & # #' -F# Q' F #' ' # 8' # SF#' #22 #F-' # 822#G8+8' I#E8 F+' " 22#J -' JH -' - J +F ' I8+ ' # 8' J <+8 8 E#' ! ' " 8+ F ' #-# E +8 -8 ' SF JF ' 2#0' SF E#F' J + F-' 1F8+ ' : F# ' 8 # ' ?< - ' # F ' -FF# ' 8#-E8 ' 5 ' , ' +82# SF8+8' 8 ' J 8 E +8' JF<#8 ' 1#2# -' SF -' # ' # 8+ # ' H+#- ' 2FJ+ F-' 1F8+ ' 2 ' 8 ' ' < ' A _' '

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' JJ28-# 8' J # # 8' +J8+8 F+') $8+I8 8+8' 8 # ' 2 8+#F-' -8J -' H # 8-' SF#'
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8 '$ -JH ' ' 'XI' F ' E' XX#' F ' # ' J2 ' ' +F 'CB ' +# F' H 2#J '-TE'
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8 ʻ FX +ʻ 8UF-ʻ H 8 ʻ 1 + #E #2#-ʻ 1#2#ʻ

+# H #ʻ 1#2##ʻ E8#ʻ # -82 JHʻ EF-ʻ

1#2#F-ʻ $F G 2#ʻ 8 ʻ 2#2EF-ʻ 8UF-ʻ #+ 8+ʻ 8ʻ

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+J8+ JHF\ʻ 1#2#F-ʻ +J 8ʻ 8Xʻ 2#JH# 8ʻ

I#J +8-ʻ 8+ ʻ 2# E8ʻ E#J F ʻ8- @@

JJ#-F-ʻ 8-)ʻ F-ʻ I8 8+ #2#-ʻ + +#-ʻ

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BM Cʻ 4ʻ '(5(5=ʻ '?4ʻ 87@ (ʻ@(!ʻ ʻ(55!ʻ - !ʻ ;;248'(ʻ 4G78ʻ # @6 -ʻ =158ʻ 2(@'?4(ʻ 3=?'4ʻ ;= 5@ 4ʻ
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BM-C 45= =:'' (55= M ! %' 45 41 84@72 71 <7'884 @ =?' 4? 42'78 4 ;71 4G58 ?4<=88 =9 2(1 ;5 (:'2'8
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5(;3''8 '(674 4 78 71 (145 0':4 5';51 (??54' (? @ =:(5?71 ! (';'71 =:''8!84 (55= A ('8 ,
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9 2 ' " !' H' E222J8 ' < U#' 2 # -' 1#F)' E#<< 8' 2 # D 8#22

9 2 ' !' EJ2#' E#9) #1J8' ' W J8J# #J Om$IF) JH F) J' qm<# JH9h2#D)' I ' # 2## ' h8)40 ! F ' 2 ' H' JHD)# H' 8' D)#1#<1#8 " '

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9 2 ' " !' $+ 82#F ' 2 # 8 -8' J + ' 0' M G8 #8 -8-' G8- F ' ' + +8 ' 1#2# ' # 22#' G #' ,LCY

9 2 ' !' $+ 82#F ' - #JF ' # ' 8 ' -8JF BL. EF ' " +# 8 -8 ' # ' SF ' J8J#E# ' 7 ' 1#2cF-' / #EHJH Ec' 8X' G8 # 8' F- + 2#-' JJ#-F-' ' JH##-' / #2#F-' + +8#' ,2c2##' # 22#' G #Y' ; #J +' 1F# ' ,LLY BLL

9 ' !' : F#8-' # 8E##' 1#2##' H E#' # ' 8 ' 1#2##' F#2# #' <#-J <#' F-J 8 -#-' , Y@' &818J # ' ! 2#-' << +F# @) X<FG # ' &F #' " 82S-##2-' $ < ' SF#8 I# ' ,AY

9 ' !' < 8' JJ28-# 8' BC' <-' - MZ -#F-' $ < ' +E# F-' I #X# ' #-' ##@' $+ 82#F ' ! 28 -8' # ' #E# ' J + ' *) 8 *8 -8- ' G8- F ' I #J +# -8 ' + +8 ' 1#2# 0 # 2 @ JH F-' +# 8 -#-' <-' SF#8 I# ' R' + <F !' 1#2 -' +F#Ec' ! FJJ8- - +' $ +#J## ' SF#8 I# ' , Y

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9 ' " ' 8' JJ28-# ' X2#X' $ < ' MM !# JF-' I1 E' #-' X I ' ,BY' $+ 82#F ' / + ' G8- F ' J + ' G8 #8 -8-' ' + +8 ' 1#2# ' # 22#

$+ 82#F ' ! 8G- F ' G8- F ' ' F+J8+0' - JH ' 1#2# ' +J 8' J 8 ' &F 8 F ' # GF ^

BM C' 3 =`'';=5!' ;= = !' 3=;' @ A 51' f4<4 ' (?' (55!' M' A ( 1' ;= 5!' (5 '?@( 8' (55`8' ' 4' =544' 7 ' @(4 ' 49' 55(2' Y2 !' (?' (1 '! M ' A (4' ! M

BMMC' 55(2!' 2 !' (5!' M I' 84 (8' !' M-!

B C' 55(2!' 2 !' M!-' A ' !' M !

B C' O&I4;' 3(:45 5 ' 7 '?41' 4 :'8' '5' 3 =5';=' ;= 15 ' (?' (55!' M !' :'' ' ;'(8'78' 9' # (2!' = !' (55=' M !' + @ 6 ' @ '1 58' 58;(545('8' @8' =:'' ' 4=' (55=' ' 67=' =''8' ?42'67'71' 5= d ' 2I ' ?4' 4 '<'4 ' 248' ?(48 ' = 5 !2!! (674' : =5!' ;= ' (5 ';'@d ' 3';' (55'8' -!

B C' 5;4488' ' 4' $ ' 65'5 78' 7 '8 48' ?1(;3(5'8' ' 7 ' 3 ' 5(' (55! M ' A A' ;= 5!' MZ' 5=5' M ' 7 ' '5' 884 !' @(!' Z ' '?4' '5< (' 5= !' Z!

=;3''A' @ '1' 5 '1458'8' @'8;=@' ' =:' 51' 4<4 =5 ' %' ('8 ' (?' (55!' M !' 41' 55(2!' 2 !' 84?' A (1' ;= 5' (5 ';'@(5 ' (55=' !

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F 0h<F @
_' JH' ; 8- I ' # <J #<' hF J ' J8 - 0'

. ' 9 # ' + F'K ' !' ' '
' # ! !' ' F6 !' ' " ' !' !' '
" " ' ' , !'K !' w K !' w G'
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-8 -' 8G8 ' J#-8 ' F #' J8J#E# ' & J '
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SF ' F-#J ' & F-#JH#-8' 1#2# a' & F JH#@'
$+ 82#F ' 82G F ' $+ 82#F ' FJ+F #0'
F ' 8 ' <+ 82#F ' F # 8 #' JF++FF @'
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JJ#-F-' 8- ' & F JHF-' 2# GF 8' a+#- ' , . Y

! JHF-' $ < ' # 8+' F2 ' JJ28-# 0'
+F ' <8+ ' SF 8' I 82' ' 1F E 8 #-' J+8 I# '
I 82' <+#-J ' +8 I I# ' E' ' $8 +F ' 8 '
$ F2F ' 8 ' +8 #F ' < F<8+# F-' H #0'
JF2F ' J - +FX# ' 8 ' #' ' <8+'
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8X#2# ' 8+ ' <8JF # ' 8 ' I8- 8-' # 8 @'
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/ 8+GF-#F-' G F-' 1#2cF-' +J#' JF ' G8 8'
& 2+# E 8' < + 8 ' +# #a' \ F# ' 8 ' # #'
+ FF-' 8- ' , ' Y')
G ' 82' +8G #' #-' BA' # ' # 0'
JH # ' +J8' 8G# ' J#a ' , _Y

B-C' '!4!' '0 '67'" 2'22=' =2 '85; ;488' ' . 49' =55(;'(4' (' @782'=' ;3(5=' (55=' !' 7(;378
' ?';' 7 N' <= 875' (' 7: (' (4 4(' K' q ;' ;'4 4' ' =8' (45'67 ' (; ;45?4 4' ; (5 7!Q& &2((37 GU 3 V Jj = (4'
@ ' 178' 7(1458'8' @8' 3=;' 41@= 4'<2= 7' ' 7 ' '5&L4 4 4' ((2= =' ('2; = 71' 0' : 4 5'A ' (@7?' 4884 ' @!'M- - '
' 416''4' =21(578' 5 '8 48 ' (' 67=' '5'(578' @ '151' '58 ' 7 78' 48 ' ':!' @!'M- !
B C' (' ('=5'8'<2''= 71' ;' '8' 4' # '49' 0' : 4 5'(' '7 } 2: (3'(1 ' (55e' 99@=8 ' @ A2'71' ;3(57 5' 48 71'
(55=' ' 5= (' ' 2(5578' '5' L5; 3 =5'81 :!' =5845 ' ' ;= = 71' 3 =5';=5 ' (55'' '8 '78' '5' '71' K' 1 # ' <'
A' / ' ; B' 8' 5(58' 65=?' (5571' - ,' '5?'; (' (' @ A2'=' ;3(5=' ' 48'171!' . 4 '=548' 67(8' <22R'' ;''
=; ;=@(4 (5 ' 45?4: (5 ' (' < 4 =' 55: R (55';= ' '5; 27?45 48' # 45 ' 4(1 ' 5(@?(2'(1 ' =(5(1 ' ? (342'(1 '
4' ('?(2: (5' ;71' ';'5'8' 5872'8' 04: '?71) ;'' @(4' ' + -# \ #' =:''884' ?';' 7 ' (55= !'
' '5'5= (' !' (?' '1 = ?!' @!' -M, ' 4941@2('8' = 458'8' 2' 4 '8' 4' 2'5 7(' 0' : 4 5'; (' '' 14'' 1(57 '8';)'
K' @+ -# #' C' ' ' # O @ # ' Z) ' 7 ' !Q
BZC' 7(;3(5' . 4 '(' 9 ' 8' 4' 175'145 71' 8(; 71' =55(;'A' 5=145' 4 '54H' 78674' 3=?'4' @ # '
= (5'' 42' . 4 '8' =55(;'A' '5' '(' 4<4 =5 ' 55(248' Y2 !' (?' (5!' - ' A A' ;=1!' - , !
7' ' '8' (:' 1(2 (?'=' @ '1=' . 4 4' =55(;'A' 3 '8 '(5=' 65(78' 1(2 (?'=' 45'1' 87; ;4884 75' @+ 6'
@0 ' 4 '78' 3 '8 '(578' 4 ' ?4'5?4' = (5' 42!) 4?' 49' 455<(42??'' '8 '; 3=' ; =58 (' 3 '8 '(5=8'
'K7'884' @= '78' 5=1 '54' 67(1' 1= ':78!) 2= 7' ' 45<(42(?' 8A; !' '' ' =: Y ' (55=' ZM!

+ g 8Q C ;='!w! ! !

9 ! EJH 2F 8 # # 8<#JH FD) #
E 2E <<222 +# P -)F 2 F#-2 2 #- #F
I;2FI J8##JD)J J ##JD)" !

YD)>) $ 2F 9#< J ! ' ! R
!/ ! !

9 ! 9 U! 9 " ! 8U# #) Z D0
q<8s#JD) S# DD# I A@ D)JH U_D) #D)
2{ : * 24:29U'G w! -bU: '?5'!
r
J! 1#F# # J U`2 82J s
1#F#JH 8EJH@
+F) DD#sJ 8 12#-
J222:? '!
9 ! ,>JH 0)8Y DD# H# ;2# # < <
$)8H 8) 22 <#D) q<###2-8 " Y < # H
0
<# H D)#28 9< # h@
0<9DJH<D) 8 6$U 22 DD J822- @
< <D)#< JD)< J<8 2E J#228@
D D2JH`)8< D) n 2# # #8D; HD)# H

9 ! D) y2< D20J <D)# YD)2
2F D)J 8 2 8- #)#<8 12#- 8 <#)JH
2JHD) q<#F)<J E ?<# <JH J8 # H8
H < # 9)< 9)< #F2JD#'H $ JD)#20
t ! $x (? JH 8 ;2# <8 #2#- , @

$+ 82#F # +8 -8 # 8G# 8 .
" 2 +F J + 2 EF 1#2#F &F 0
2 G# G8- F)G8 #8 -# - # SF
F+J8+ 8 F- 1#2#F- +J 8 I#J + 8+ @
F- <#-J <# +# #X 9 2 ## JFUF-
-8 - +F 8+ ,? Y
8+ F- <- -8E#- E#J # F 8 0 . B
F #+ #2#+ 8+ # , <FE 8 +# Y
,LY $+- 2#F 8 -8 G8- F
8E 1#2# " F+ #
#1F- +FE## 1#2## #2J #- 8G#- $#J0 K .
+F
F- & G + # 1#2## #-- 8 8G#-
2 # 8 , Y , ++ + F8 -#- Y
$+V-2# /8 G<8 -8 # #E# J + . C
/# JHF 1#2#F # 22# G8- F / 2G#0
8 -# - 8++ E##-4 E8 E#J F 8- @
8G8 ? F- +8# EF2J J F@ /# JH+ 0
JHF 1#2##F # 22# 2# -#28 # <+ 8 8+#+8@
82#F- <- SF 2FJ F -8 2 FE +# #
8 8 8+# I# J8+8 # <+ 82# /8 8 #
#E#
$+ 82#F +EJ + 8 -8, Y # F- FG0 . C
E JH# 1#2## G +## 8G#- 8 +##8 ,# 8
8 # 8Y # <8 1F2GF+#- #E 8-
/F2G + #G # F 8 JV82 JJ#E# 8F
< - SF +8 F J# --8 ! $ +#J#

B C :("=:' 51 4<4 55 55(2! !(?A A ;!- 4 G79 ((2'=8 N) 0(78 49455 4 A;5'= 4 ?45(58
'5475 4 67'5 = 1= 4 0':41';= ?';' 5 '9'8 4 ':78 A;52'8 4 '5 4] (5?A =8 0':4 5'A =5(;3=8 G7 4
14 '= 5714 (= 4 8 5=5 @4 454 '(? (41 t (';''! '9'1=8 `7 =24 =145'8 :(5'1 =:''884 (55=
84@ ¡1 45'1 ;3((; 4 48 / ''5 4 4884 '5 4 =:' 51 4G78 4 =:' =1 ! (';'' (55= 65= / ; '5;'?4 4
'5 1 # " 4 (N; / ! %# 2 1 " 67A 5= A '5?';(5 (5 ! M ! 4 =5 A '(4 5(4:= 51 0':4 5'A
'?4 85@ ((? (55! !
BMC 4 :(5 @ =:' (1 4<4 55 55(2! 2 !(?- (A A ! !) 4 2=;= ' (:'2''55 41= 4584 ;424: 4
'5 4 :5';=8 (5 4 (? 45 71 (';'' '?4 8 @ (@(! 4
B C =5 =1(5 (.49 2:(5'A 84? <= 8(5 =1(5 (@8! ;1?4 458'8 ?4 67= '5 55(2! 2 !(55! - !
4? '?4 '5< ((55! - 4 5= ! ':'!
B C A2'71 ?;= (5 4 1= 8 5 (?'' '5;'?4 4 (55= A! e! - 2 ! 7 ;4 (;3 <'2' ;A '5' '(?4?7=''5
(:'5?4 55(2! 2 42 G79 ((2'=8 (: (55= A A ;! '54' @4 @=8 '5 4 4 571 (55= 51 !
B ,C = - 3 =5 ;= 3(:4 - # - %=9 48 (5 '67(454 4 (; =8(5; 51 8' 5'<p;(4 !
(';'= 8@4;'(2' 4 (: (@ '67'8 0':4 5'8 6565(1 4 @<=@ ' (?8; '@ (<7' @ =@ 4 (75;5271 ! ('571!

- " ' !

N !

#<822 ' Y;2F#1#8' # 2# U; F h-' #<<#U2##

5!' 2!

JH E#F-' 1#2yF-' F+8E G# # ' #+82 F-' 1#2#F-' #+8E)' F1# 8I88 -' E' 8G #+ ' 2#E#w

. L' U #F#<88<+ J## ' # ! #' '

:bU'2 ' 3" 5' @!

. ' 9 ' !' U;2 J ' # q?y28 F#? y< '

8<8' ?! " ' !' ' ?m< < 8JH '4' '

' +#81 ' #' J # 8' 8 #20J8J8<8 ' ' '

' #'A' 8' 8#<<8

F+J8+ JH -' 1#2# -' +Jw' # 8 ' +8G0'

' # 8+ #w ' , Y

/#2# -' #--w ' #'8 ' 8 GF-# -' <-' 0'

E8+8 -#-' S #8I# ' J U -' 1# 8+' 7 , '

E#J -' 8- ' J U -' 8+' / ' 1#2# ' 8+ '

J E# E8' G8 8' 8 8+8 ' ' S ' #0'

-' 8- ' ' ' / !'12BY

. ' 9 ' !' e ' <8' [<< ' # 8' ' '

R ' R' 'W K ! F' @

<< ' <J @

J J2#' ' J 8< #|H' ' 8X @'

J J ' 8 ' 8<8<' J J #<' 8X@'

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0 : #8-' +J#' <# ' ! 2 8 -#-' L ' '

w #-' - w ' E8' S ' $ +#J# -' # @'

<#-J < -' +8@

'S wJ S 8'18J# '+8J 8'1 J '- '

: #-S #-'J -#2# '-8J+8 + 'E '+8J '

8 #' 8 8E#J # 8 ' <#-J <#'

+J# ' , . Y' 0 +x

9 ' " !' " ' +! / ' ; 4 ' ! V + - ' K ' ?!' ! '

' K ' ' ' ' ' ' !' , KY

r' % -' # '- ' ' ' # '$ ' #

0 ' '$ # ' ' - # ' # ' 8

. # % '$ 1 ' % -' # ' 1 ' ;= !' (1 '!' - Z!

B C' =5' 855 ' ;=5<75?45?" <'2'" # ' ?4' 65':78' 87@ (' (?' (55!' ' ;7 1' <'2'=' 42' <'2Y8' # Z ' 5 ;4 (;3_8' # w' <' 78' 7 4?(;3=' d 4 ' = (5'=' (=' '(2 ' 1 (5" @ =54@=8 ' 49' <7' ' 0 ':4 5'A' (55'8' 99'!' (4 ' 4G78' m# ' <'2'(' 4 ('M ' 67" =5('71' ,1' .4 41' 0 ':4 5'A' ' (71'3(:5' !' :' '8 (' =(5" <'2'(' 7 ;4 T' (;378' @(=5L1';4' ?'; 78' 48 ' + ' # ' 7' ' '8' 78' .49' 3 '8 '(5(8' 0 ':4 5'A!' (= ('78' =:' ' ' (55=' ~&' 4;=5?(8' 2'2278' =2 ' (3'A' .4 '8' <'2'58' 4' .4 4' =55(;'A' .49' 0 ':4 5'A ' 4 5(' '99' (5'8' (?' (55U U'!) ' 4 '78' 7 (?'78' (= ('" <'2'58' 4 5(' '99 ' (53'8' (?' (55!' - M!&U s7(78' 7 ;4 (;378' 1(;' !(qd' 4 5(' ' (55'8' 992 ' (:' =:' =' @ A?4;488= '8' 5 (?"!) s7" (55=8' , ' 7 ;4 (;3=' (8; ':55 ' 5 4 4 57 1' 67'5674554' '5;27?75 ' (:' =:' =' 7 (?' ' ' 7 ' '5' 55(2!' 2 !' A 4 ' 5 4 4 5" 45'1' 8@('71 ' 99' (5 71' (55=8' 4 5" ;=1@24 ' ' 4 ' @(41' 55'78!' (1' (5571') %# ' / ' =5' ' 4 4' ?48" ' 4 ' 67=' 87;;488= ' '5;3=(' ' (::(" ;3((; 4 4' #(2!' (5!' 5= d ' ' 4 5(;3' 4 ' 9" 4 5" (55=8' ':5' ' 87;;488= ' ' 55?4' (5571' 4884' =@= 4 ' A A' ;=1!' - ' (' 67=' 9" (55" '5 4 45'75 ' (?' (55!' - ' 67=' 87;;488= ' 4G78' @+ @- #$ ' (55=' , ' @=8 ' 1= 41' !' ' '?A' =:' ' !) =5 4' (2'78' <7' ' # ' 2d5458'8' (:' # ' '5;'@4' (2 '(?A!' I

B C' 45 78'78' @ R 178' =5?4 458'8' @'8;=@78' =:' ' ' (5!A A' !- ' 5! 2 ! " =5;'2'(4' 546 ';=' 55!'?!' 2 !' (?' (55!' - ' 7:" =1(5 (51' @1!' =5?4 4584 1' 4=' (55=' =:''884' 5((5 '4?1' '8?41' (?' (55!' - !

B -C' ;78' =:' ' ' (55=' A ('8' 87A' ' A A' !' ' G79 (' '1= ?!' @(!' Z' 4 ' , !' 4?' 55(2!' 2 !' (?' (55!' - , ' A A' = 5!' - ' '?' 4<4 =5) U% ('8 " 5((5 ' ;51' 4 ' 7: (4:71' ?1(;:(571' =:''884' (55=' -

B C' '((5" 5(' ' (41' 4<4 =5 ' 55(2!' 2 !' (?' - ' A A';!' - Z' 88; !' (?!' - ' @(!' , !) :' ' ' (55=' A ('8' ' A A';!' M!) L1 1(;378' (@(' 49' ' (:' (55=' M ' (?' 9' ' #2!' 7 !' - !

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ʼ E#J8ʼ #G8+ JH#ʼ E28# ʼS -E ʼ +F ʼ8ʼ+8+F ʼG8- +F ʼ!-8JF2#;#ʼ + -< -#2c 8-ʼ # 8ʼ# E8ʼ JJF++FF ʼSF-8ʼS 8 8F SF8ʼ8# ʼ JF2 #--# ʼ#ʼ8++ +8 ʼ # EFJ8+8ʼ< --8 1ʼ F ʼ8F# ʼ +F ʼ# ##ʼ F22ʼEc ʼ ʼ# E#J8 F+ʼSF ʼ ʼJ!ʼ ʼ1 + 8ʼI82ʼF ʼ # F+ʼI82ʼ EUcJ# F+ʼ Fʼ+ -< F+ʼ ʼ cʼ-8SF8 #F ʼ-8+#8-ʼ 2 81 J ʼ F ʼ# ʼFʼ 8X F-ʼI#Xʼ8X<2#J ʼ< --c ʼ Fʼ Eʼ<+#-# ʼc 8G+c 8 ʼ+8I J +#ʼ X8 <2ʼ-#ʼ +E ʼ8ʼ F 8+F-ʼJH + J 8+F ʼJʼ#ʼ-8SF8 8ʼ< G# ʼ ALʼF #ʼ #F-ʼ&F JH#ʼ +E JH #ʼ SF#ʼUFX ʼ 8-ʼ ##ʼ ʼ-8+Zʼ ʼ. ʼUFX ʼ -ʼJʼ#ʼ8 E8 ʼ< G# ʼ +818+ F+ʼ Eʼ F ʼ. . @&F-8ʼ8 # ʼ 8ʼ9ʼ# 8+I8 #F ʼ< -ʼ #F ʼ +J#ʼ!2 8 -#-ʼSF#ʼ ##ʼ ʼ. ʼ 8ʼ #F ʼ&F JH#ʼF E8ʼ-8SF8+8 F+ʼ &F JHF ʼ ##--8ʼ ʼ. . @ʼ X8 <2ʼ 2#ʼ+ +ʼ JJF++F ʼ 8JʼF22# #ʼ< -ʼ ʼ._

ʼ J2#<-#ʼ #ʼBLKʼ Eʼ F ʼSFʼ/8+GF-#F-ʼ1#2#F-ʼ <J#ʼ8Xʼ # 8 #ʼ- 2I8 -ʼMʼJF ʼ G8 8ʼ& 2+# E ʼ< +8 ʼ +# #-ʼ 8 F# Qʼ -8ʼ +F ʼ9ʼ+8J 8ʼ EU#J#F F+ʼ F 8+ʼ-8Xʼ # E#J 8-ʼ F ʼ8 #G+ # #-ʼ#- #F-ʼ1F#--8ʼ 8+-8ʼ ʼ. Aʼʌ # E8ʼ Eʼ<+ 82#F ʼ +EJ + 8 -8ʼ SF ʼ F+J8+ JHʼ1#2#F-ʼ <J#ʼ 8>ʼ # 8+ #-8ʼ+8 F J# F-ʼ8- ʼ 8ʼ 9ʼ -F ʼ-8< 8 ʼ+8J 8ʼ # E#J 8-ʼ F ʼ. Lʼ SF ʼ $+ 82#F ʼ #- Eʼ G8- F ʼ 8- ^ʼ # E8ʼ Eʼ #F ʼ&F J #ʼ +E JH #ʼ ʼ9ʼ-F ʼSF F +ʼ< +# 8+ʼ+8J 8ʼ# E#J 8-ʼ F ʼ. ʼ !8Eʼ 2cFEʼ8-ʼ +F ʼ#F 8+I8 #8 #F ʼ F 8+F ʼ# E#J +8ʼ 2#FEʼJF#SF8ʼ ʼ+8-ʼG8- -ʼ -# #ʼ<+ <+# -ʼ +E# 8ʼ J2#+ 2 G#J ʼ E-J+# 8+8ʼ SF Eʼ ʼ-8 <8+ʼ JJF+ 8ʼ<8+1#J#ʼ E8Xʼ #G8+ JH#ʼ E28# ʼ ʼ <+ 8-8+ #+ʼ# 8E# 8ʼ 8ʼ8ʼ# 8E# 8ʼ< -ʼ ʼ. ʼ ʼ<+-82#F ʼ &+ E8+G8 -8ʼSF Eʼ #F ʼ&F JH#ʼ# 8E# 8ʼ<+-8J8E#ʼG8- F ʼ8- ʼUFX ʼ 2ʼ 2ʼ ʼ 8+-8ʼ ʼ. K^@ ; 8 -8ʼ #F-ʼ +818+ F+ʼ 8Xʼ #-ʼ 9ʼ Eʼ. ʼ8 -#ʼ #8+# ʼ UFX ʼ 8 -E8 ʼ 2ʼ 2ʼ ʼ-8+-8ʼ ʼ. C@!ʼ +#G#E ʼ9#2E +8 -#-ʼ ##ʼ ʼXXXʼ< -ʼ #F ʼ$ +#J##ʼ#ʼ8ʼ ʼ.A ʼI#GT-# ʼ ʼ + 8ʼ &F JH#ʼ8ʼ 8ʼ -ʼ9ʼ#ʼ#- ʼ # 8+I 22ʼ#ʼ E#J8ʼ E28# ʼ ʼ<2F+8-ʼ-F ʼSF ʼ ʼ\

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!

D)J ' h< F)' h8# D:#.8' < <' qm< #2.# # '
2Y8#<<# 8' <#)' ??<#D)J;Z)# # # 8') 8#22' ?_' #<'
D)' JD dH ' < ' JDD<D) H ' JF# ' '
H8' <#' 2D)# ' J ' ' # 8D)J ' FJ' 8 0'
<<82 ' JJ' ?
' Y#E' I## 2' #)#1<' #- 8' -#c' 8'
D)J ' D)# h<E #DD# ' 8< D)# 8@'
2YD)' 8' ' J8<' # - ' 1`# 8@
9'!" !' hF JD)8H_2#< # D)J D)' ' ' D) # 8'
= 5-bU22' 2C4 ':;:bU'@' ' !

9 2' !' D)# 8D)J ' 2J D)# 0 '< #WW' !'
. . ' $ ' ' + ' , ' ' ' '
' ,' ' ' !'
, ' 9 ' . ' ; A ' k
' # ' ' " !' 2D)8 ' <
#22 E<D)' " !

9 ' !' D)J ' h8J D)' D) ' h< F)# ' <8 '
' &' ' 2< D)2' # DDJ' D)#22' <8 0'
J 9# #' !') 22 ' ' I`2 82 #J #' 1' 8

$+ 82#F ' &+ # 0E8+G8 -8' J + ' #0' .
/ -' 8++ E#8 -8-' <+ -<8+ ' G - F ' <8+'
/# JH G#F ' 1#2#F ' # 22#' 8 ' <+ 82#' #- '
E#IF2- ' 8- ' < + # ' #E# 8' ' G8 # '
F-SF8' E' - 8 JH ' F ' 8 1 82 E' J8J# # @'
M' ; # E#J ' &8#' -8< 8 ' #-@ J F- ' 1F# '
M' 18 # # 8' J +E#- @ $+ G2#F ' &+ E8+G8 -8'
M' 0) SF ' - + G8-' 1 J ' 8- ' #E8 -#F
9 ' I# ' &F JHF-' <-' +E JH F-' .
+ FF-' 8- ' , _Y
' ,#' 8 ' 8 ' -#I8' & +8+J ' .
0!28# H8 -#-Y' ## ' , CY
G 22F-' 8 JH +8 -#-' F-' 8- ' , LY . _
R 9 2' !' #JHF-' JH 8 -#-' F-'
8- ' , Y' . . .

9 ' !' F- c F-' -8 # +' +8G ' #-' . C'
I###' , Y
/ ' <#-J <F-' 9#2E +8 -#-' E + #0' . A '
I# ' , Y
9 ' !' $+-82#F ' &8 8' # ' 22# F-' . A '
+8G#-8 ' # ' SF ' J8J#E# ' +EG 22F-' 2#2#F-'
22#' +# H ' 1#2##' # 22#' 2G ' 1#2#F-

' + ' ' : =5!' ;= ' !' 7:2'5' e?' 142'58' %' (!' (?' (55!' - , ' + - ?' ' 3 O - ' ' '
55(2! 2 !' (55!' - M!' aaa aaaaaaaa &

B ZC' = 1 (;=' ?4<75; =' (55=' MZ ' 87;;488' ' 67'5 78' ?1 (;3(558' $ ' 58654' (?' (557'5' - &' 67=' 87;;488' '
!\ ' 55(2! 2 !- , ' A A' ;!- ' 5=5- ' 5 ' '5' 884 !' @(!' Z !' %'?4' '5< (' 5= !, !' 41' % (!' (?'
(55!' - ,!
B C' =9'1 (' (55=' @=8 =:' =1' 7: (;3' ' 3 =5!' ;= !' !' 7:2'5' 3A;' 3(:4) #!' '!' s7'48' (4 4^' 7@'
$ @ ' 67A' + ' ! ' ' @=8 4(' 5=1'5((' 48 !) :' 51' 4G58' 4<4 1 5 ' 55(2!' 2 !' (?' (55!'
- ' A A' ! Z ' 4 ' G59 (' (2'=8' - ' A A' !' - M!' %' !' =:''884' 5((5 ' (55=' - Z ' 884 !' - !' 4;45 '= 48' 471'
;71' + ' ;=5<75?75 !' ' 4 5(;358' 5=145' ! ' (5 71' 3(:4 ' 87:' 3=;' (55=!
B MC' =1 (22' 5(' ' (41' 4<4 75 ' 55(2!' 2 !' (?' ^ ^' !' - ' 1= 41' (?' ^ ^' !' , ' 454:= 458'8' =5(8&'
4 '' <''5?(145 (' G4;' ' (55=' - - - ' 42' - - M!
B, C' (55';3' 5(' ' (41' 4<4 ' =2 (578' (?' (55!' - , ' 67'(' %' ('8 ' =:''884' 5((5 ' (55=' A ('8'
3 '8 ' -M !' '(?4 ' @!' ZM ' 5!' , ' 4 ' ?4'5?4 ' @!' , ' 5!' M, ' (55=8' 1'84 4' ;=5<75?458' '565') J[=:'' ' (55='
K' ^ ('8' 87^' ' 4 ' 3 '8 ' M ' ' ' 1 ' ' rX$jB' 55('!' 2 !' 5(' ' (41' 4G78' 4<4 =5 ' (?' (55!' - , '
^ ^' !' - ,Z ' 4 ' 49' 4'8' 88X !' - ,Z!' (41' 3(:5' ' ?(?4;=1' =4 (1 ' 4 ' '@84' =4 (' <7' ' 7 ' '5' . 4 !' O':!' ! !'
+ # $' ! ' ^ ^ ' '= ' ^ n ' '^n ' g n^ ' & F
<, C' 78 '578' 845'=' 5(8 (8'=' 85;;488' ' (55=' A A' e ' '?4' %4 '248' ?(48 ' ! !
B, ,C' =521' @ '1 ' #'2?(!' @' =:' 71' 4<4 =5 ' 55(2!' 2 ' (?' (55!' - M' A A' !' - , !' ! 41654' %' (!'
(55!' - M!' r

" ' !

! !

.A U F h' ' ?<8#h2 +#E#8' ` ' 2#1 #D)22 w' , #F#U 0' J81#JD)JH' ' D)<JD)' ' !' F#J+8' ' <)#-' !' 2F ' J #228' ' f' ' ?2' U' ' f

H#' 1#22#' +F ## ' 1#22#' / 82# ## ' 8X' +G# 22# 8 ' 8 ' F+J8+ JHF-' 1#2#F-' +J 8' I#J +8-' 8+ ' F 8 #-' 1#2#F-' + G#' ## ' ,A Y@ 2F 0 #228' F-' 8- ' ,ABY' E8' SF# F-' E#J F ' 8 -)

.8 ' JH9# ' 1 $Q ' D) ' J28#<#-H@
#F' <' < ' 8 2 # @

?<' D)8' 2#+H' F'<D)h' FD) 9#<@'
:bU" ' :7bUP3bU" ' !:@ R#U 3 '
Y8 D)8#7 << ' 2< JD)< ' ?2 " !
2#22 ' 2 ' 2#<## D)J D)' $ " !(

F-' 8- ' E#28J F-' 2F ' 28+#JF-@'
E#8 ' $+11#< -# F-' -F<+ ' # 8+ # '
E J @
E8 ' 18- #I# 8 ' ' #G ' +818+ @'
+-' 2 ' +#F <H -' 1#2##' + G# '
8 E#F-' <-' +J + 8 -#-' SF#8I# ' ,A.Y'
2#2EF-' -' +E JH F-' E + #
I# ' ,AKY

.A 9 ' %' 9 ' 2" !' ' K ' ' ' ' ; ' K ' 4 '
!' ,A_Y

J # ' 8' 28 F<D' < ' I_F D ' ?! <# EF ' 8' EJ # ' #<<# #' I`2F 0' D ' 4' 4' $ ' ' ' ' ' ' G'
!(
+ ' .

JH E#F-' 1#2#F-' 8 GF-##' 8X' 0' #w' SF#8I# ' +# H F-' 1#2#F-' JH E##' -FJJ8--# ' 8#' # ' +8G ' # 8 ' . ' . ' .

.A 9 ?$' 9 ' !') ' +!8 # 8' XXX ; 2## ' 0 ' ' ~ ' ' '
' ' !' ,ACY' ; ' K ' ? " !
9 ' " !' ' U ' ' ' , ' ' ' '
' ' ' ' ! n"``' 4 ' !

B, C' ' 7 4=' 3=;' 5=1 45' 3(:7' ' =5(8 4 '71' 7 e584' '5' '?'(' 7 ' '5' %' (!' 55(2' (5!' , !) G78' =:' 51' 4<4 =5 ' 55(2!' 2 !' (?' (55!' ' A A' !' M' %42G59 (' (2'=8 ' (?' (55!' , , ' A A' !' , !' 0 ';' 4 '(1' 5872A' 7 458H' '5' < A =' 27'?4584' 5=1 45' ' 1 @=85'884' '?4 5 !
B, C' 55(2!' 2 !' 5(7 (' 5((5 ' (55=' - ' A A' !' - M' 42G59 (' (2'=8' M' A A' !' , !) 884 '58' (55=' -, , ' 541@4' (55=' (5 4' (? 45 71' 4G''8' '5' ' (55'(1' ,!' =2 (578' (55=' - M' '(?4 ' @!' !)]454(2= '(1' 4G78' @4 @4 (1'493':4 ' 884 !' @!' !']454 ('u548' 3=;' = ?'54' 4; 4' 5714 (5 7) $ ' 1 ;' . ' 1 ;' . #- ' , ' 1 ;' '0 $ ' ' ' ' - ' 7' ' ' (674' (' '(22=' (5=' '5;278' 4') ' %'?4' '5< (' (55!' ' 4 ' !
B, C' 4=(?'' =:'271' 4<4 75 ' %' (!' 4 ' 55(2!' 2 ' (?' (55!' , ' A A' !' -, !
B, C' 2'''8' <7' ' 2'2?78' @8!' ?1(;3(578' 67' (55=' - ' 5: (;3=' 87;;488' ' 849 78' @8 ' 67'6 4' =:'' ' G79 (' 55(2!' 2 !' (55=' -, ' A A' !' , ' 5 ' (@''?' 884 !' '5' 5?';4!' %'?4' '5< (' 5= !' !
B,ZC' 0= 1'8?(' 49' ' ;;248'(1' (:' (55=' - '(?' , !' ' ?4' X '<'4 ' 248' ?(48 ' ! ' ' 4 5(;378' ' (674' ('' ' 3'8' ?4' (55=' A A' ;=1 !' -, !) 0= 1'8?A' 87;;488' ' =5(5548' !' (@(' ' (1''8' !
B, C' :'' ' ' '?(' (55=' A (' Z ' (55=' 999' @=8 ' 1= 41' (';'' ' A A' !' , !

! !
.A_

' '222 #y#' {|F # P#y#-')# H'2 #-H# '
D)JH 2FD)JH<D)' UIF)' #I#<##8' 1 <' '
'8'`' 'J '8#+ 0)

J
D)E# 2 #|' 2F9JH<W)
4y2' J8<' 2Y<# 'H' #' <#1' <D)11' ,£Y

?<#D) 'JHD)'H' <# 'D) <D)JH D)' HFD)#1@

2# 'J < '?)#22E J)# 'F)<#+# D)11' , Y

?A2# ' 8' |F 2 # -' 2 -0

+-' 22 E#' 1# #' &F 2 G#' 8G#-'
G8 #Z' $+U82# ' F JH+ 8' <+ -<8+8'
G8- F ' ' + +8 ' J + ' ' # 22 -' E8'
SF ' E#J F '8- @

$+ 82#F '18+ X' F JH+ 8'-F-SF8' E8SF8'
; #- '8- ' ,# '<+ 82# Y' +#G#E '#G + F+'
J F-
/2 JH EF-' /# + JH8 -#-' -F<+ ' ,JF+'
+F Y' - 8 #
!F- #<8 -' J +<F-' 22 E#' JJ#-#

2#2EF-' 1#2#F-' $F 2 G#' 8X' G8 # 8'
+8G ' ,ALY

; '& '; '"' ' ' 'E ' ' '))_'
, ' # '? ? ' # ' '+ ' " 'J !' 2 G'
& '" '? ' ,' ' '" ' ' '& '" !' , Y
K '+ ' , !' , Y' 4' 4' 4' 4' , : F 8E ' E8' #-' ' # F F+Y'
7 'K ' # ' ' ' , ' ' , ' " !
#F# JJJJ XXXI##' 9 2 ; ' ; ' ' ' ' ' # '
' "A!V 8 'K ' ,A ' 'K ' " '? '
' ' ; ' ' ' 'U '# ' " @' / # '
? ? ' '$ ' !'HIyE' , ' 'XJ;#' ' ' ? '
" 'U ' ' 5 - ' #' ' ' ' / '
!' , AY' K ' ' ' '+!' ' ' ') " ' " G

B C' K' '2" 1 # 1 B' %' =5!' ; = !' !' 7 : 2'5!
BUC' A' ' #%' 6' '=' 1' $ E'@ 3 =5!' ; = !' 4; '=' @= '= !

B,MC' %4 78 '88' 1 (' 875 ' 4 ' <4 4' ;=(4 (' (1 '5(' 0' : 4 5'; (' 67(4' '5' 14?''' " (' ' 4 5(;3=' (<<4 75 7 ' 7'
- ' ' 2'" 4 4' 0 ' 1 ' 7 ' 5=5!' (??7; ' ' (1 '5(' '88'5'') . ('=' 48' 67'(' 67'8'
49 (5' '88'5=' (?8; '@ (' 875' ' 4 5(;3=' @=824 '= (N' 67^' 457'5(' 4 (5 ' (5 4' ' 4 5(;3" ^ 51' @4 '4 4!
! '4' ' 55'(5 '" 4 '8' ?<'' ' (41= (5 5' (' %' (!' 67" (?' (55!' ' ('75' 22(5?71' '2'51' '1&
2(5 " .4 41' (45'^' =:''884' 4' (?' (55!' , !' 2''?51' <'2'''1' 55'(5 " .4 41' @('4' (45'^' =:''884!)'
E#' 1= 41' 4<4 55' 55(2!' %2 !' (?' (55!' - , ' ^ ^' ;=1!' - ,Z!' %' (!' 49' 3'8' 4145?(5?" 875 !
B- C' 78 '558' =:'' ' (55=' - ,Z ' ;7 (' '5@4 (884' (55=8' M' 14584' !
B- C' 5;4 (' 875' 67^' ?4' (55=' =:' ''(24' 2:4" 4<4 57 7 !' =5 45'55' '5' (55=' ^ ^' !' - ,Z' 55(2!' !' 4 8"
@'8;=@78' <74 R' 2:478' (55=' ,H' 4?' '?4' 65^' ?4' '=5 ^ ' (4' =5(;3= 71' ?'4 (' 875' '5' . 4 !' 0' :!' ! '
5?';4' 72 '1=' =;4' M - '4' 87@ (' @(!' Z '4' ' ' 5!' - 'N 4' ,Z' 5!' !
B ,C'] '2' 14' =58 (5 '5=@=2' 1' (' 42'8('=' ?5; 78' 78 '5'(551' '5' 0 '@@=? =14' (?= (4' ;=(; 58' 49;2(1 ('

A ' 9 ' !

A ' ' A ' '$ (' ' ' ' +!' ; ' 8 !'
!' , Y

.AL' 9 ' 8 ' D)8# E ' 1##JJ ' A ' 8 ' cI# -' 8 #' JF2 # Y' , BY

9 ' " !' 9 ' !' D)JH # 8#JH ' w' D,JH $+w2#F ' # E#J8 -8 ' 8 ' $+w2#F ' ; E#'
R - B ↑' # 2#8' <U#') ' 1 #F#U#J8<JD)JH' 8' #a ' -#I8' ; E#' <F-w ' , .Y' G8- F '
D<JD)' " ' ! J + ' G8 #8 -8- ' F+J8+ JHF-' 1#2#F-'
+8a' ; #J +' 8+

& ' ' ') T ' , ' K ' ' ' ' '
) ' ' " ? ' ' ') ' 3 ' '
' ' ' * ' ? ' ' ; ' / ' , ' # '
!' , KY
9 ' !' U ' / ' ' , ' ' K ' , ' U ' # '
!' , _Y' 7 ' K ' ? " ' ' ' 8 ' +!' K ' ' !

'?45 '?41' [' ` ' ` EE) 9 '5; 71' 48 ' %(5?(2';71' .4 571' '5' < ';(' (55=' M ' @=8 ' =;;7@((1'
(3('545' ' 4 ' (55=' '@=8 '%(5?(2= 71' '5 488' '1' '5' < ';(5C!
B C' O=;' (55=' =:' ' ' ::(578' !' (';'" ?'8;'@7278' 55(2' 2 !' 4 ' 5'8<(2!' ;=5 45'45 48' ;75" ' 4;3(5=!
B C' 2'78' <(' ' =45' 4578 ' 6741'] ' (2?78' #4' '571' (@@422(!' =@= ' O ' :!' '8 !' ' ;!' , !' ''; = ' 4 78'
%' (4' 4G78' 4; 4' '567' ' @- ' O ' :4 5';4' @72;3 55" 45' 71' '8' 5'<';(4' N 4 ' K' 1 (571' =5(8 4 '71' (:'
K' ' ;=5?' 7 (' '5' (224' 67(4' ;= ';=' =;(7 '] '45?' '4' 1=?=' ' O @ @ ' 'O' 4!' %(22'8U' ?7= 71' 8 (5=&'
K' 71!' :" ;2((' ' ' (8' ; 4 ' '67(4' 48 ' '5' = '45 4' (45'458' ' '1 ' '5' 4 '=54' . # EE) ' =5(5=' 48:L 4 ='
O ' :4 5=' :(@ ' (71' <7'884' 87:G75 ' !' =41(558' (7 41' (;72(78' ?4' 67=' 3'4' ' '8' 48 ' ?4' 67=' 884 !' '1 = ?!'
@!' M , ' '567') K' ' # ' (55=' - ,M' 5(7 (' (55=' -' 67'4 '884 ' 49' 2 !' 55(2!' ?'?';''578 Q' 55(2!' 2 !'
- , ' (4 (' ;!' - ,M!
B -C' L;271' '8 71' (55= 71' - ,' ;=1@=85' ' '=5L8'78 ' 5=5' (55=' (4 (4' =1!' - , ' 7 ' @27 48' @7 (5 ' 84?' (55='
- , ' (55=' '=;24 '(5=' , - , ' 8" 541@4' (' #(2!' (5!' (55" , - ' @ '178' '=;24 '(5" '5'4 ' ' (55=' L;2" L '22" M !'
5?4' 849' (?37;' (55" 87@'4 4 (5 ' '!4!' M ' L '22" ;71' (2''8' - ' 65':58' (??' '8' L '2'" L;278' 49@24 7 ' (55=' !' - '
67" 48 ' ' , Z!' 41@4' 8" '=;24 '(5" @ '178' (' #(2!' (5!' (55" , -' '54(' N 67=?' ' 4 5(4:78' 49@ '14 4'
=27' ' 49' '=5L8'" '@8'78' @'8 =2(' (?' 4 =5'71 ' 7:" '565' ' K' !' L '2278' @ '171' L;271' B8771C' (:' (55='
'=;24 '(5" - ' ;(4@' ' 4 ' 72 '171' '5' , Z' 4 1'7(' !' =8' (' , ' (55=' 4G58?41' L (55' ' @= '78' 67('5' '5;'@'8 '
'5;3=(5 48 ' 5=27'158' ' = 2'8' 5=8 '8' 141= '(1' '1@'" 4 ' @4 84;7 = '8' '554; 4 4 ' 84?' 1('8' 42' 45 48' (:' 5;(&'
5('=54' 5'!' 5 " ! !' (55= 71' 41@= (' @ (45= (4!Q' =87' ' ' (674' '=5L8'78' '5' ;(@' 4' ' ;7'" 87" @ '1' ' (5571'
27;(5('=5'8' - , ' 7 ' '5' 4?(' ?4' (!' 41@!' ;!' - ' 4 ' 87@ (' @(!' ' 5!' !
B C' =?'4 75 ' 78 R5'(5" 4 48' 87:' ' 72=' K' = @78' 7 '8' ' '2'8 ' L@'8' 2 4 ' !' , ' ='!' =!' ' 4 ' ' 4 71'
) 7 ?75' ' ='!' ' '5' <=2'=' ,Z) ('8'R8' ;71' 5= '8'] =?4< =L' ' , ' , ' ='!' <=2'=) 18 42=?(1" 2 6 ' '
' , ' ='!' <=2!) 58' 5'8' 4?' '=' @ =?' ' ' ' ='!' '5' <=2'=' 2= 45 '(4' 49' !' =?';4' 4?';4=' (4;72" ' ' ' (57!' -- !
B+ ZC' %'; = '78' (@7(578' @8' %'; = '" 67' (55';" L;271 ' 5=5' (:' '5;(1('=54 ' 84?' (' ' ' '7;'@'45&'
41 ' 87@ (' 141= (71 ' B@(!' 2' ' 5= !' -M C' '5' 5=55722'8' 4?(7' !

" ' !

9 ' !' D)JH # 2# |8' 1 ;2F## J8D)<0 JD)J2# 8' D)I JD)' 8D)JH ;2F#-H8' H' 2#2 8' $ $' 2D)# # H' _' JDge ' : 2#| #8' 0< < y#|0 ;D)y ' _' JD)J ' ? 22# F 8' _' JD#JH N8 JH < < 2D)# # ' _' < D)# ' D)' 2#D)JH # ! D) ' '# ! 8 h<D)82 ' J8 @

D)JH H# |8#JH ' D)JH ?y22 F 8

DD ' E## <#< D)#< #<J E <D) <.D)# ' D)' 1 в - ' D)J ' 6A2# #8@ _' JD)J ' I_ F#.H8' H' q 2#2 8

8 ' K ' !' !' ' _' W ,!' "!

!' Y!' CbU:7-3' DZ 7@;9bU' ' 1!U bU@;#' J82J F ' < D)' D)# JH8' F22 28 ' Fp< ' ' ' ' ,4Y

#<' D) ' F ' D)< ' ' 8

I-`D)' 2FD)# <8' 2D)< < y2<' <#F< 2 #<J<# 8< #+ # q< < JD)8 ' J28# - ' D)# H<8< <

9 ' !' $+-82#F ' 2# E8 -8' G8- F ' ' K F+J8+ JH ' 1#2# ' +`# 8' $+ 82#I# ' <# 2 8' J8 + ' G8 #8 -8- ' \ ' $+882#F ' EH 8' J8 + ']JH 8 -8- ' 8 ' $+ 82#F ' 2 # 8F-8 ' 8 ' $+ 82#F ' # E8#JH' J8 + ' G8 #8 -8- ' _' I - # ' +8G# #-' 2c J 0' +F ' # ' #- 8' ^' E8' SF# F-' / G' ' J8J# # @

$+ 82# # E8#JH8 -8@ $+ 82#F ' 2 0 8 -8

8 <F-' 8+ '#- FE' #22F- +8 ' 8 ' 2FGF +8 ; - # ' 2# JH ' $+ 82#F ' EH 8 ' <+ 82#F ' <# 2 8#

#1 J#F-' $ < ' ' +8X# ' #-' ## ' 8 ' . E#8 F-' %!

&# 8+-# ' F+J8+]JH# 1#22# +J 8' # ' . B E 2# ' I# # 1' J 8' & 8# + ' <FE 228 ' 28 #) ' E' +#< + ' I# E# 12F # #- ' F ' E#J F ' 8- @

8 <F-' 8- ' 1 + #E #28' - <+ ' I8+ #J8 ' =22'8

! #' <+ 1#Jc-J F+' F2 # E' 2 JF ' #- F ; 8+8' J F--8+ ' # ' #G 8' , 8G8 #Y : F8 ' <FE' 28 # ' E# 8+-8+F ' # ' ; #

BrC' K' '?'; 71'48 '(' ;=' 8? 54;3=!Q' 3 =5!' ;= !' :' ?41' 4 878'846775 7 '8';)

% . ' ' ' O !' !' !' !

' ' ' ' ' $ @y ' 1 ' 6 #' @ ' !# '1 #' -1 #O . #' $' 5- ' $ 1 '1 ' ' ' $ '# ' #$ 37O !' ' + # ' ' O' ' ' ' ' ' :378) \1 ' '1 #') ' ' ' :45O ' ' '=5) ' + - ' '# ' -1 ' 45)!! ' N -' '$ 1'. ' . ' '# - ' ' # O !' ' ' # '1 '1 # O ' -' $# -J ' # ' '

. ' '1 ' ' ' #% 8' N; ' ;; :(' ' ;' '$ ' '$ ' O '$ '- ' ' ') ' '- 6 $ ' + - ' 6 O ' ?9' (' '5?'8' (' :' (5 1 (5!' ' ' - ' 'O '- #$ 'C - ' ' '# ' - '- O ' ' ' #' '

' =5(8 ' 67'%' (1' '! = 51 :(5' 8; '@8' '(5 4' (5571' '5(41' O' :41 ';(1 141= ('67(4 4' (554 (' ' (4' 4?' :(' ;71' ;=114 ;'R8 ' B:(7' (' ?7:'4' '5=' =578 (C' '5' O' :4 5'(1!' ?!' 241'5 !' = (5'' Z' @!' , !

B " !

y2mq # #) JD) 8E#8 # D) <# D$I{#22
DF b''5 bU #U'1'
bU; 'U'@'5 bUL @ (5 !
8D) < ++F)< JHF ?
. 8 D)<JD) D#< J #F
2Y# # |D) D# D) 0 <F<
F#<<# 8D) J < < # J 2F<0+0
F 8 #D) D) J F) <#+#
, ; 2 # # <# 2 #<J8< J8
J#- 28#J# D)# <# <#
#22#< <# 8 D)<JD) 2228#JH)) 8#22
#<#J <F#2 <#< F# D) # F# < D)#<
J<#8 D) J8#

G -F <F2JH+ 1# #22F- +#- # 2##
FE# F- 8#/8+ F+ 8## 8F @
#JF SF8 8 8 J F
!# F2#8+ SF JJ#E#- c@
/ #2# +J 8 - <8+8- EH2#J
!F<8+8-1 # oF 8 8UF- # +8
H # F
8++ <8 EFJ8+8 SF8 8F SF8
1 8UF-
8J #+ EF S2#8+8 28 JSF#0
+8+8 1
: F - -F11 J I# +8G8 # J8 E##-@
: F8 # 8G# 28 8 -8 -F11 J I# I#
8E## 28X 1#2#o- +J # +8G# 8
' # 22 +F
/ 2FX# - GF#-# J 2 <F I# <# SF#
F2 #<2#J # 8G# # F- # #

8 <E82z 8J
D I## <8< #< D)8 E#<<JH#F ,ACY
_ # J9) F< ,) DD
? J #D) 22F FD)) 8#22
h4
W ! =2! T! !
!# D)J # #<# D# D) @R
< H D)< D) <# J8 D)#2@
D) 8JH D?I< _ D) HD)#
J <9 2# #D)Jm#JD) 2# <9 H 8 D)#@
J8 D! #+) E< E8 8 E#
2#2 8 28EJ 2F E#< #J Y@ J 8
2E 12# 2

8 1 82 E#F- J8J# # @
/ F8+8 -8< 8 F+#G 8 I8 J H + 8-
1F# # F- G#- SF 8 1#E82#-
F18+8 E -#E8- ' # 22 F @
!# F2 -#E# F- # -
!# E#X# < 81 J#8 - 8 -F @
!# GF2 F 8E# !# -SF8 E82#8
! G# J\+ 8- 8 1+#G8-J# IF2 F-
" 8 # F- 2 8 # I8+ -# 8 -8 -F
- -F # \ # 8 8 F
2 8F- 28J8 -#- +# ## ,UFX
SF -E Y JH E#F- 1#2#F- 2 # 8X
2#E#a

9 " ! FEJ E2 I?`2E82 E< 7 + @
) 8JE#) ! K! " J !
+ ! ! ! A G ' F
! ! ! + K! r) ! !

J !" ! F H 2#F- 2I @ +IF- +8G #
8X # 8+ #a #- X# & + # # !
JH # &#-J#<F2# ! $ +#J## XI# 9 2
!8< !#J #<-\ -J+#<-# # <#- 2 -F @

B, C = #% 3 =5! ;= = !3(:4 '!4! =3= 48 8' 4 7 1A!

" ' ! .

') !~T+ !' ! . ' ' !' '
B''4!1 ~' JU

m_ JHJD)' #'2#2 ' 0<9) M)' ?' R
JJJ' 2' FD) ' # ' J##q10)
0 8 #9)JH' # 0U# 22' 2'8J#)' +FD) @
8 c-H' # ' + #n' Y'8DD#JYg#') Q '
J# #' 2 #J 8@) e8D)#' S ' J0@'
#21#' J ' 0<#X#' ' 2F8# ' h8J@
' # ' JH8 ' J' D) ' J8) #2) ' ')'
2l0D)#hH 2##J 8' # J 8 ', 0<9) #)#20> 2' ?
' H #H B' J ! !
$' e ' ' " ' # '
' ' ,#4Y' & ? ' ' " ' '
' ' d ' ? !(

M' J ' <8JJ +' $+8- 8+' - J##' $ +#0'
J##' &#-J#< 2F-' # ' & # ' - 2F 8 Q' JFUF-'
)-8 -' JJJ^' +F ' 8+ ' ,ALY')
&8 c8-' J 8# ' EF2) 1 H-8J'
JJ' +F ' 8+ @E#F F+ F ' # #- 80'
+#F f@6' ?
' ' 8J' I J8 ' J + ' -' +8-' 8 #-8+
8X + 0@
8J' S c#ESF ' J #-' E #-8+8' # + @'
8S' GF- ' 1F#' 1 #2# ' J 8#@
JJ' $+8- 8+2)' 8 ' J' <#-J <#' J 0'
+ ' JF ' 8 @
!8X G# E-8 # +8-', +8-' $- 2 +F '
H +#- 8' 8UF-@
/ #2# ' \G# ' I 2E8' #22F- +#-@
:F-8' 8J' +] ' 8J' 8 8 ' 8J' +# F0'
+ @' ' ' ?
8J' 2#F]' ?#18J18] ' 4BF ' 28J # # F-r'
' # JF 8+8
n' r~

&&&&&&&&&&& U U) &&&&&&&&&&&

BrC' 7G(8' (p (8' ; ; ;' (55= *&'& 48'1 ' 3(4;' '5' # =5!' ;=) 4' 0':4 5= 71' 27=' ' '(Up p(U;52(' 5714 (7?" f + '?4 87@ (' @(!' ,Z !' 5= !' !' a]' =; 4=' '?4' 87@ (' @(!' ' (55!' <p' w 4' 2=5 (4 '(4' =5(;3= 51' 0':4 '''(4' '?4' @!' ' 5!' - ' 4 ' @!' ,Z' 5!' !' '+ T &' J
B C' 4875' 4 878' '8 " '5' 3 =5!' ;= !' !' 7:2'5!' =8' (5 41' (??7;75 ' @(72=' ('(5 48' (' ' 41(;3" u?';4' =?24'(5=' %' ('8 2' h?' (55!' '8';)' !' T & &
' . ' + ' ' '$)1# 8 ' 6 p ' $ ' '
0 ' - ' # ' ' O- ' #' + #' '
J ' $ ' ' #' + ' M -1 -' ' b <
#' # ' ' - #' ' ' ' % ' ' 1#
' 1 ' #' ' ' - ' # - ' # 8h
P 0 ' #' - ' $ ' - ' # ' - ' - # ' 5' ' -
B,MC' =;3 4" =:' 71' 4<4 75' 55(2!' 2 !' (?' (55!' 84 84' !' - ' 42' - ZJ' UY!' # ' 4@<;' Fp '(' ' 84' p 4;72(' 67=?' ('54 ' ('@' (5 4(' 5= ('178' (?' =:' 71' !' :(' ' 1= 41' 4884' 2=6745?2' 0':4 52;71 ' 67=' 67" '("8U&48' 494 5 4' 88U;72=' 4 ' '9' ' 846745 4' '5 4 =' 4 ' =:'' ' '5475 4' # ' &?';' 7 ' ':78' 884;52'8' '9'884' *67 (' '<4%4 (' '?' ' ' 8 4;72(!' !' 71'5478' =5?4 458'8' '5' 87=' =@ 8;72=' 4' 14 ' '8' @ (4;'@''= (1' 0':4 5'84' !' (55=8' 65':78' !' =; 478' '9' ' 4;458458' ' (5 71' (55=8' 4" ':5' '7 ' '5*%4 7846745 4!&'
' + ' M - - O # ' # ' Z # ' 1 - '
0 ' #' ' ' #%@81# ' # ' ' $ - ' 9
=8* =;3 4" 7 5(458'8' (2'8' 4 ( ) 49' (78 4 ' (4' 4 ' 4 72('p' ' ( )
' 5'3'2' ;(5'8' 78 (4 ' ' 8@('=' ;45 71' (55= 51!' *
2= 7' ' 71'5478' 8' (5 4 ' (55=8' 1'224' ?7;45 =8 ' G59 (' =2 (5" ; (' Z -' ;4 4' (5 4' 1'224' (57=8!
E(8478' '567' ' =; 4''1' 8; '@8'884' 3 =5';=5' 7 ' '5?';(5' 57(248' Y2 =5!' (?' (55!' -Z, ' 3 8' 4 :'8) K '1(' K' @ 84?(' (9=571' ?4' 0':4 5'(' 7 ' (2'" ?';75 ' *'8 =' (55=' ?4?7; (' 48 ' 7 ' + ' ?';') ';' '5' 2': =' ' H'5 45 !Q' '5=8 4 ' =; 478' =:'' ' (5 4' (5571' '8 71 ' 4 ' =; 478' 3 ='p= (@378' '8' <7' ' ; ':(' 4 ' ('8 4' ?1(;3(578' 67" =:'' ' (55=' M!) 27 48' @(' 4 ' <74 4' ''(5(;3' ' 67= 71' 7578' ; ':(' 4 ' G @8' 7 1(458'8' =:'' ' (57=' , !' =; 471' 141= (' ?(15(558' '5' 84<(!' ,!' ! !
/' !! 0' -

K " ' !

8 A A ' K ' ? " ' ' ' ' ' ? ' ' ; ' , ! Y

' ' , ! 4 ' _ ' , ! ! : Z

D)D)+H 2#) EF) < 2 #<8 8J ' , D 8# ' <#D) +11#2#F ' F < + 8 G 8' # 8+ EF '

- ' 34 /! ' 7 ' " ' V #12F # 1 G8- F ' ' F H 2# ' 2I 0 +I '

J + ' # JH 8 -8- ' , Y

9 ' ! M ' ? ' ' ' ' / ' ! , AY

. . K ! _2 ' _2<h# #,)J D) ' 'V= IJ~ ' ' 0 2#2EF- - +E J - + FF-

? " ' 2YD) #J # 8 2J ' H 2 ' H#228 ' 8- ' , Y@) #I# - H# ## 2F # !

W R 2F 8 J<28-# +F

9 ' ! ' ' K ' ? " ' ' ' 8 ' 8 ! K ' ' !

! ' ! # ' P ' ' ' ' ' '

, ' ' , ' " ' ! , BY?8# ' 8 ' K ' ' ! !" '

' 8 ' ' 4 ' ' W " ') ' ' ' ' ' ' $ "A (# A '

' ' ' ' ' ' ' ! , . Y

. C J ! ' ' D)J ' 2 8 2 JHW) ' ' ' J8J ' ; D)# 8 4$+ 82#FY< / ; ' # ' SF ' J8J#E# '

8 8< F#22 J < H H ' _D) 8 ' ' 1#2#I - ' / , ' EF ' F8+8 F+ -c0

< ' .D7 8## ' 8 #22 I2# H FD) Y<#D J 0 E8- 8G# #- ' ' ' # ' J# ? '

Z D,JH _2# 8 " ' ! " 8 F- 1#2#F- 22# ' 8X 8G# #- '

' ! + & a ' T 7 ' ' 0<#J + 8+ @

D)22 8 h D) D)#<J m2# H ? 22 D)# ' G 22F- Z1#2cF- & G + # TX 20

' "PG! ' # G @0 #18 ## ' XXXI ' ' +8G # -F# ' , KY

JB C ?'48 'K' =3(5548 ,?58 Q) 67" ?'4 72 '1= 4;41 :! (5= - , ' (? @5 '<';(51' 4 4; 78 ' 49' ' ;;248'(1'
T! 78674 (? '! #(2! '1 ! 55" - ! 2 I -B ' < C
B C K =55(;3 'II 3 ! ;= !) 0=;' 41@= 4 ' ;3=2('55'(5R?4 \ (4' (' ? ;424 :4 '1 ('<''' '' 0' :J41 '(! :"?7=
45?(5' '?7= '((5$ ' ! =271 :(('5';7T 4 (2''''T :7 R <54 4! :' ' ' '55'(558 (55! - - , ' 7 ' '5 55(2! 5'8<(2!
B ,C =5 1 1'(578 (;422'558 ' 84? (;422'578 =148 ' 67" ! 0'4 =5L1 " 3 =5';=5 U=5 '57(' ' 78674 (?
(55! - - ' 7 ' '5 (88'=?= = ?4 ' ! 58 ' ! ;! Z!** *
B C 2'2?78 4@ '178 @!8 ?1(;3(578 =:'' ' G79 (1('! 2 ! (55= - -G 4X 84 ;! - !I (' ' (654 884 !
'1= ?! @! Z ! 2'78 <7' ' 2'2?78 " ?1(;3(578 ' ?4 67= 87@ ('@(! ' 5= ! , !
B C s7(4?(1 '@(5;('?481 ' ' '5 49 7! & J '
B -C :' ' ' (@4 78 9 #(2! (' ' ' (55= - ' 14584 =5 '<! 9! ?'4 , M! (5?'5'! 4 (!) '=8;= 78 5=5 <' ' '<
24 ' '178 (@(' 5 " 5= (5 ' (5?'578 ' 57@3 R78 ' p c P
B C #4 48 2:(5' @ 3(; 4578 141= (" 855 ' M 1' ' <'2' ' '8 ;' ' =5('" ,?" .4 '8 0' :4 5'1 ' @4 ' (: 451'
.'(?('54@=8 ' 8$ ((?'(' =55" 45 '1(3" .4 'U <'2'(' 84@ '178 ' 67" ;''1' < (':78 '45 58'= 4 ' 4 78'=
(2 '(?'5=8 49 =1 ' (7 5 '14584 '5 2:(5'(1 ' !?7;458 ' ;= ';(4 49 0' :4 5'(=2=5'84 ' '5 ; ;'?45 (2" 2:(5'(
(' .'(?(2=5 4 (5 4(8 (:'2' (4 * @ '178 <(; 78 48 ' . 49 ' (55= ! - ,! 8 6 '567('5 (?7= 71' ;= '^' .4 71'
78674 (? (';=27(1' 4 '71 '@ '178 4 6(' ' (3 (55=U- !) ,! 7; ;488' ' 4" < (4 ' . #- ' # ' ' ' 42
+ ' ' (1(' 4 ?'; 78!) ! 4'5?4 u - # ' ' . #- ' '"!4! 4 78 '" @ (R?'; " <'2'78 ' 67" (" 87; ;488' '
(55= '5;4 =! 8 ?7=8 <'2'=8 3(:' ' ' '49 4?421 '(' (' # ' =;3=?'" 7' 314?=5R" <'2'= = '75?('741@4 - @
'4 67= =1 (22" <(1'2'(2:(' ' ';('4 '0 # ' 4 67= <(1'2'(2:(5';( ] (7 (5'!) =1(5 (?= 87; ;488' ' @
- ' 7 ' 87@ ('5 49 7 ' (55u - ' G79 (2(34 471 ' 67" (55=8 99' ' (5 71' 4" ' :7' ' ' 41674 (145
0' :4 7';''1 ' 5(7 '' ('=5'8 (2;=21 '" ! 4? 55(2! 2 ! 4" '' :775 ' (55=8 999 ' X ' = :''884 (''5 ' (55= - Z'
(' ^ ;! - ' G79 ('67=8?(1 ' 42 (55= - ' ^ ^ ;! , ' G79 ((2'=8! %'?4 % (! (55! - Z ' 4 ' '5< (' @(! '
5! - - ' 4 ' ' ' 41 ' 87@ ('@! ,Z ' (55! - -!) 714 " (55= 71' '5 =?';':78 ('(5 48 ' 4 ' ?4@ ((' ' @=8 72(5 '
7 ' R 4 5(;3" 48' 'U '5 (4 51' 42'567(1!

! !

9 ' " !' K ' a V + " ' K ' ' ' @# ^ ' . L

, ' " ' , ' ' ? ' / ' , @ , ; 2 *#J#E ' I_ D)8JH ' !

9 2 ' " !' ' " ' 5 B# ' K !' ' ' , !

U # ' K ' ' ' # ' ' " ' , ' " ' !' " ' ? ' . B

+ ' ' " ' + ' ' ' ' K ' W9JH $ # ' ' 8 '

, ' !(' , _Y

9 ' ' ' # ' ? ' 28<8 '

' ' ? ' UI# ' J2 #Y # #8D)WH ! '

2Y8<JH9 ' I 8JD) ' K ' ! !

J !' !' 2#2 8' Y18##J FD)' FD) ' ? 2#22 ' #J

9 ' !' D)J ' m +D) ' <#D)' 2 # H*# ' # ' ?!'

J8J ' 8' D)<JD)' 8' ?*2#22 ' ?' 2J ' '

4@bU)

D)JH R?Y2)# #dH8' #' q J8J' 1 $ D ' 82' $!'

d< ' 9 ') <8<-F<' _ ' 9 ' d H F)22' 8'

I_ F#<' J JD)# H' 8' _ ' 2D)' H' _2 +H#<8

' 8J 9(' _' ' #-H' 8' FD)JH ? '

Uf ' !' ' ! ' A)

?m<#J2#J ' JDD#JH H ' #DD JH< 9 JH'

@4# : ; U'@)

D)<' # ' 82' -8) #J' FE<' FD4)' <<#' #8D) D)'

<8D) D)' ' JD)E#*I' ' J< 8< ' , CY'

? <JH82J' 2 8D)Jm#' ' F#<' F<@

'C@7'2' @%4@ ; O ' L4='2!

8<J#)#J' ' (z# H' JD)<<8# ' # ' 8 ' 0'

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F 8 ' << ' J 8<8' ?!

+ 2# -' G ' E#J ' , ' # ' SF '

8F-' J2 FEF- ' JFUF-' 8 ' 8- ' 8+J 0'

F-' JF2 F- ' $ 8 ' <8+## ' ,<+ ' G '

28G8' ' I#E8' V ' . BL ' # 1+ Y

2 8F-' ! 8EJ*#F8 -#-' J828-# 8 ' 8G# #-'

2#2E # ' ##

9 ' !' $+ -2#F ' + F ' JF ' G80' . B*

#8 -# F- ' # ' SF ' J8J#E# ' 1#2#F-' +J#' 1#2##'

2##E#' 2 ' ' SF ' I#+#' +8G# #-' 8+ 8'

E8-J8 EF 0) $+ 82#F ' ! 2#GF # F ' # '

SF ' J8J#E# ' G ' 82' 8X' J# 8' ,# ' 8 '

? ' 8X' H+#- # F-Y' JJ#- -' ' / 8+0'

GF-# ' 8 ' & 2E ' EF F-' 1#2 [-' F+J8+1 G#'

1#2##' +J ' 8 ' ' #+\ ' 1#2# ' ! 8E 8# ' 8 ' '

E#GH# ' 1#2# ' & F J ' SF#' I#J +8-' 8+ '

F E8' E#J F ' 8- @ " 8- F ' 8- ' <+ 82#F ' #'

/ # JH+ JH' JF ' / 8+GF-# ' JF @ J + '

82F ' #FF8+F ' F ' <+ -E ' # #0'

#J +F ' JF ' - + G8@G8- F ' 8- ' <+ 82#F '

<FE' +# E8+@ ! 8-8' -F E#E8+F ' ! 2#GF 0'

#' +* # ' & FJ# @ ; #+# ' JF ' J 8 #0'

F-' -F#- @ & FJ #' -F ' J < #I#' G8 # '

JF ' J <# 8' G #' 82 ' , LY@ + +8F-'

1#2#F-' +# H #' 8X' # 8' FG E'

<-' E8+8 -#-' SF#8 I 8+F

B ZC' . 49' ' '2 4 '78' (:' (55=' - ' (?' - !' I ' ?4' 4 !'248' ?(48' ! !) %' '2'(8' 4" 87; ; 488' ' (:U (55=' - ' (?'
(5=!' - - - ' 54 1 @4' 9 " (' 674' 24 ' 1 78' ?4; 2((78' 48 !

B C' (?4 1' 3(:4 ' 3 =5!' ; = !' !' 7 : 2'5 ' 8' ;)

. #' ' # ' . 1 # OM ' 1 #- ' 1 $ #' #' ' ' - '

#' > ' 1# ' - @y # ' ' ' # #'

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B MC' 4' 4 ' :78' =55(?A' 3 '8 '(5'8' '?4' '5< (' @(! ' 5! !

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B . ' 0 . q ' 0 ' ! !C

.BB 9 ' FD)E#J)2 1;2D)82)1 ' 8 < F#J JD)8JH 8 ,B Y #1#<U # 8) 8#22 m ' 8 0 UF)82# ' J 1 J #< ' <8 2 # ' 8 2J8 K ' 2 # ' 2 #2 #U ' 8 ? 2<- ' h ' #22# ' ;#F#<JH8## 8 # ' 8 JH #< , ' h#) <0 #J 8 8 < HF#22 # ' 1 ; 2 82# < < ' _ ' ' h <J # #< I `2 #2 #< <8# ' < # ' 2 J2# #< < ' F ' K< 88 8 2 #2 #< @ e ' 8 F# ' 2# h _ ' K < ' 28 J< J2#

.BL # < ' 8 ' ' < #< i ' ' ! ! R ' ' ! ! ' < 2F # 0 80 #< ' !

W ! . ' ' ' !

#8 8 h ' 8F8 ' ' 8## 8 ' #2g8 ' <F# < #J 8 ' ,B ' J# # < ' #' F#K 8 8#J # ' , ' < J hF 8 < 2 # ' J < ' #22<8 < ' ' F# 82' I## ' 2 ' , ' # <8 8 ' < ' J < ' 8 U ' ' J ' # < # ' _ ' <8<J ' ' ' J #< ! ' !

<8<J ' ' < < #< ' <J 22 28 8 @ 1 ' 8< ' J ' < @ ' 2 J < # ' ;# 28

9 ' F H 2###-' 2I 0 +I -' 1#2#F-' + J# 8J# ' 1#2## + +8# ' 1#2## # 22# ' 8X ' 8 +# ' JJ#-F-' <FE 5 # ' #' 8 ' 2F 8F ' J <F ' 8+I +F ' F 2 +## 1#2## +G E # E8 20 2##-' ## # #- ' ,BAY 2 +#F-' #- 8 1F# ' 1#2#F- ' +#-' &# + # ## 1#2## 8 + H8 2## ' 8 ' #< -8 8 E8 ' 2 J ' 8 ' 8 < +8 JJ#-F-' 8- ' F E8 E#J# F+ ' <8+ ' <+ I8+H#F ' M ' L ' ' !> : F#8-' 1#2## F#2# # ' 8 ' E+ # E#J # $8+8G+# # U # + F-' 1#2#F-' + #1#J#-' ## ' ' ' w #-' -Fw ' H J 8- ' -T< # ' < - SF ' - 8+#F ' E#J F ' / G G ' # ' 8 ' ! 8J8--F ' 1#2# +F ' #2#F ' J - +F0 8+8 Jw<# &8J <# # ' 8 E#J# FE J#-' <FE I8 # 8 ' 2 # 8 -8 ' <8+ ' I#+ F0 8 ' # ' 8 ' <8+ ' #+ JF2F ' ! ' # + # ' # ' 8 ' F+ + 8 F ' 1 2-F ' <+w- # # ' 8 <8 ' UF+ -' <8+ ' ## ' # + # ' # ' F ' J ++#0 <8+8 ' G G+8 ' J 22F ' 8UF-00000 ! 8< 8 #-' I #X# ' <FE JH - @ 8 E#F-) ' *F# ' 8 ' $ +#-' ! ' # + # ' 8 ' & +8+J ' +#-' F ' #<-8 E#X# @ & +8+J ' 8+ ' 8 ' 1F# @ ' 1 8 # ' I ' SFw -F ' <+ Iw #E#8+8- # 8+ ' H ' 8+ ' $ 8+@ 8+ ' 8 <+ 0 <# SF#-' 2#22# 2

B C 5 3 =5! ;='! [[7(3(2 (42 (: ;(=';3 ' 14 (' @ 4 ' 14 = 1(; ' 14 4'22 . 45 (;3 ?4 ' = 37'5 A (='21=' !Q
B C = K 7 ('<\'41!Q 3 =5! ;=' '3(:4 ' K % @ " # B
B ,C 7(3(2'= :7'4 87;;4w8' ' # ' ' 4 (2' <' 58 ' 67 ! ! '((5= @ @ ' ' 4 ' 58=2(1 ' 5872(1 ' ! - ' ;71 ' ' ;422'8 '5 '?'(' 4 ' 4 '(?=5= ?4?' ' 7 ' '5 ': = ((5! ' 1 = ? ' @! M!-Z ' 4 ' '5 ; '8 '((5' ' ': ! @! -! (72= @=8 4('4 (578 ' ' ' (4 '=5(?4584 ' 47 1 ' 87'8 '22''2'8 ('8 = 87= '5'(5= ?=5((' 67 ;2'=2(1 ' 87(1 ' 4= (58 7G' ' '5 5 '5(5872(' 1 (9'171 ' '@84 <75?(' ' =5(8 4 '71 ' 4 ' (? 7878 @(7@4 7 (4?' 78 (;67'8' ' ' (1@2'88'1=8!7 ' '5 '?458'8 ;;248'(4 (:72'8 '1 = ?! @! M M 4 ' -! 4'5?4 '5 5U5(7;;488= 4 42'; = ! ' =1=5'4584 ' (55=!- ! 2u54584 =5(8 4 '71 ' '5 '?'Z ;=5?'?' ' @ =@4

" ' ! L

! !

, >' #- # F-' ' ; ' h#)< #)#+' J' 8D)< 2#8 #2 Y

N8D)m F#' J' 8< F#22' , ' D) D)#2 12#- 8' ' 1## h

9 ' " !' # 8m* #D)J ' #' E#<<<8' <F# 2FD) D)8 # ' ' ! J' }

9 ' " !' 8' F 2D) # ' 12# ' 2DD# 8 ' , !' < F)J' #J' I # ' I_ F HD)

9 ' !' J !' !' J !' U!' D)J ' HF#28' H 0' #<8' ,B Y' # ' á J8J ' # ' ? #22' #' D) hD)' m ' D)J J' _' _28K' < 1#JD) HD)#2 0' <D)J)#<' ?$8< F#4 _' h)# ' ' D,' J' #J' D)<JD)' " ' !

hF)JH' 8 D)0 F D)' J' qm<8D)< 1D)' ` !')JHJ ' ,BBY

9 ' " !' ' ' # ' #' # ' < ' W D)#228' ' # ' F# 8' #22' #' 4 ' + ' ! !' ! !' ?m<# #9' J' H#' 822 ' _' 2F ' 8' <# JD, ' ' _' 2F ' <8' 8D)2J<D)' ' _' 24 8D)22' J' 8 D) hD## ' _2 ' #22#' 62J D)# H' h<F < h#) ' _' I;2D)JJD)#2 #22#' F#2 ' # ' !' !' D)# ' 8' <J<D)#

9 ' !' D)J ' F#22# 8' # ' b

&# + # #F-' 8+ 8 2##' 1#2#F-' # 8 ' .BB +8G F ' # 8 #w

9 ' " !' #G8+ JHF !' 122#F-' + +8# ' ! <#8 -' <-' 2F w #-' 2###

9 ' " !' 2#2EF-' 1#2#F!' &F 2 G#' 8X' G8 #w' # @ + JF-' 1#2#F-' 2#2E#' 8X' 1F# ' #w

9 ' !' 9 ' !' 9 ' U!' $+w2#F ' F#20' .BL +8 -8' # ' SF ' J{ #E8+F ' #11# ' Df ' 28X' J#w ' 8 ' 8EF-' / + H 2' 1+ 8+' 8UF-' /8+G -#F-' 8 ' & 2EF-' EF ' 1#22#' +Jw ' I#J +8 ' 8+ ' ,B.Y?

9 ' ` ' + 2# -' G ' # ' 8 ' SF 8' .. ' E#J8 F+' + ' ##2 ' ,BKY' I 82' 12 I ' !J #8-@)#' SF ' #- #' - J *' #8+F ' 8 <80' ' /# E# ' 1#2#F-' ' 8 EF ## ' 8 ' 2F ' 1# F-' +* H ' 8 ' 2F ' -F2 8' 82 + 8' 8 ' !# 822F-' 1#2#F-' 8 <E #' -' #220' JH E8 -#-' - 8+##' # ' &+F 1 E' 8 ' J 2#F-' #2JF22# 8 -#- ' SF#' F+' G F-' 1#2#F-' +J+ #

9 ' !' $+ 2#F #' F22# 8 -8' # ' SF ' J8J#0' ..A

45(571'<27 '71 '@ =9'1 =' (55=' (5 4' =:' (1!' :'' ' (55=' M' (5=*1 ('8' (5 71' !' .4 52(1'4G78' =5(8 ';51' 141= (" 884 '@!2 ' ' 41 674 22 '4 ' 55(2! 2 !' (?' (55!Z !
B C' 3 =5!' ;= '3(:4 '3'4' A' ' # B' '5' .4 '=54' # ' 5' =55(;'(!' ! 41' %' (!' (?' (55!' - ' 4 ' 55(2!' 2 !' (?' (55!- M' A A' ;!' -- !
B C' 4875 3A;?4' 5(;3=':!' 4 ' '5' 55(2!' %' !' 4 ' % (N' ' (' 7 ' 49' ; ':A' =8;' (5 '(' '584 (' ;45845?(8'5 !' 5(;3" 45'1' =:' 78' 4U 5 '87@ (' (?' (55!' - ' @!' , ' 5!' -' 4 ' C' 4 ' @!' M ' 5!' Z!' ! a
B -C' 0 ;' :(:45 ' 55(2! 2' (?' (55!- M' 1 A' ;!-- !' \R' $(5?W' = (5=' 42=' 87;;488' ' '?4' '5< (' @!' ' 5= ' - !' 4 '78' <7' ' .49' =55(;'A' 3 '8 '(5_8!
B C' K' = (2' (8!Q' 55(2 'Y2 !' (?' (55!' - ' A A' ;!' - M' 4?' 5=5' ;=5 45'55 ' ;3((; 4 48' #!' (' 1= 4' ''(&' 3(2'" (55=' - !' 75 ' 45'1' 5714 =' 849 ' '5?';(5 ;8' = '?41' (55=8' 849' (7 41' (?G55; " (55=' - ' 4<#;'75 ' -- !' %' ('8 " = (3 (413(5;' 4<4 =5 ' (?' ' 67=' 5((5 ' ! '((571' ?4' 25(51(;5='8' 4 ' ' 4 5(;371' ?4' 25(5(& =('8' 4 ' (2'=8' 1 2 =8' 4' @48 4' '8 (' =:''884!) =5;'2'(5 5 ' =1548' ?';45?=' 4 7@'884' 1= (2' (4 (' (55=' - ' 4 ' ?= (884' (?' (55!' -- !) (5' 141= (" ?(15(578' ! !

" ' !

' !

<8 #J2 ' 2F# H ' <' ' ' # ' J8' !E8 ' +J #JH#' < <F2#' # 8' <8+'
2FD) #D)' <8D) D)#2' q< E# #-H' J + # 8-' ! ' 28#' 2F 0 +8 E 28 -#- @'
J#2# +-' / H G#' 1#2# ' 22# ' ,B' Y

. . 9 ' ' YD)# ' " JH ' J' 2 # 9 ' !' +-' JH E##' 1#2# ' # #' 8G#-'
,-' S H' JH' 2 ' ' ! !' < D)J' J' 2#E# ' ' SF ' ' JH#' 2#E#' 8' + #' -F ,BCY'
?22#22 ' 12 ' D)# s# ' ' !' b.(+ JF-' 1#2#F-' 2#2E#' 8X' G8 # 8' ## '
8' ' <# JH h' 1$J # F-' 8JJ#' 1#2##' &8 G#' ; #- @ # F-'
<#F ' ? <8D)< ' J' 28 -F< ' <' 2) ' +# H #' 1#2## ' +#F# #' # 8 ' / +G 8' 1#2##'
<<<8' J' < D) 9' m2 ' 2 U 8 GF-##' 8G#-' 2#E# 8' 8 ' + +8#' 1#2##'
+ J# ' 8G#-' G8 #a

. . B 9 2 ' 4 !' "! ' 1 ; 2 2FE' # ' HF#' JH8 ' 9 ' !' #I# -' 2F 8' 1#2##' ' JH8# '
K ' ?!' " ' J<F<JH $8- #-' SF-8' I J F+' + !' ,BLY
9 ' ` ' EJH F ' J' q)<8<-F< ' << ' 9 ' ` ' H F ' 1#2#F-' / 8+G<#-##' <-'
? ' / !G ! !' ' ' JH F# 8 -#-' . ' a #-' -F 8' '
, ! V U # ' K ' ' ' ## ' , . Y' ; #G#2# -' $ <' ' # #28'
' ' ' ' , !2' _' ' 8 ' 8 ' K ' -' ' ' ' ' X#' E#8 F- ' ,2 JF-' 8 E
!F' @ - -Y' # ' -#2#J ' ' $8 +#' -8<F2 -' 8- ' , . Y'
^0' . a ' a' 8 ' 28#JH ' , 1Y #I# -' 8 #' 8 H8 -#-
9 ' " i !' F JH0J8 ' ' 1 ' J+ # <' 9 ' " !' &F JHF-' 2# GF 8' +#-' 8X' 0'
<' ' JH' h< J28#E#8' hF' ' J <JH #<' J# 8' ## ' , . AY' $+ 82#F ' &+ J28 8 -8'
?m<8< ' H ' ?<# H hH' I ' 2 ' 2 ' 8 ' # ' SF ' JJ#-F-' 8- ' / 8+G F-' ' / #EH F EH '
J' #<#22 ' _' 2 ' ' F # ' JH' ' H' _2< ' 8X' 2#E# Z ' <8+' &8 F ' 1#2#F ' +#22#'
JH ' #< J < ' m ' <' ,B_Y') 8 < ' 8 ' <8+' JH# -' + E8 -8 ! ' H E#F-0'
!' ! ! + J ' 8X' J#a' , . Y' 8 ' 8 - 0'
F-' 8<+ - -' #8+F 1

BrC' 4875 ' 3A ;' ?4' = 1 (; =' ' 1 3(5=' 4 7(' 4 ' (: 4= ' ' 5' 3 = ' !' ; = '
B C' 4875 ' 3A ;' ?4' =4 1 (5=' ' : ' ?!

B ZC' = 5453 1 ' 55 (2! 2 !' (?' (55 ' - - ' (4 ^' ; !' - - , !
B C' (' 55 (2! 2 !' - - , ' ^ ^' !' - - !
B MC' 5' ' (2! 2 ! - - ' 1 ' 1 4!' - -
B- C' : ' ?' - ' ^'&(4 ! - - - !' 4?' 5=5' (55=' ^ (' ! - !
B- C' : ' ' ' %R ' 2' 78' (55=' ^ ^' ; !' - - - ' (55=' 9 " @=8 67(1 ' @ =' 24 ' ' 1 =' =5 ' <' ; 4' 3(: ' 78' 48 !
B- , C' 1 (57458' 8' 48 ' 4 = !' %' ?4' 87@ (' @!2 M ' 5!' ' 4 ' (55!' - ' 87@ (' @(!' Z!' 4 48' 3 ' 8 ' (5" =5&
5(; ' ^' 3= ; ' = ?' 54' 57 1 4 (7 ' ' !&' !' ! - ' 7 " 8' ' @ (' @!' M ' 5!' xZ ' ?4' 5?4' ' Z Z&' 2\=\' !' !' ' 0 ' ' : !'
; @!2 ' 5!' , ' @!' 2' ' 5! - ' @!22Z ' 5!' Z ' @!' ' 5!' !& !' ' ' (; 3=' ' - ' ' 7 ' 87@ (' @!' , '
5!' - ' (55' 8 , ' (: ' (55=' - , !) -!' = (5=' 42=' 87 ; ; 488' H' 65' 5 78' . 49' : ' 8 ' (1 ' 8' ' Z3' 5-(5?(' 7 ' 87@ (' @!' M '
5! !& !
B- C' = ; 3=?' 78' ' 55 ; (5(' 22' 5 : (5? ^ ' 82' ; ; 488' ' . 49' =55(; ' ^' 849 78' 3 ' 8 ' (5' ' 8!

" (' ! B

9 ' !' ; # !' ' 2#9)# # # #1# # '
9)< F)J '# 'J ' ' ' '.F I2 # 9 ' 8< '
' <F#+####8J # 2# @ !' ' ' 'J D)#< G'
' @))28 ' 8' J2#4 #< #JDD< ' #
<

4 9 2 ' !' 8 ' ' 2F 0'
<8<+D)' " !

' !) #< # ' FD) 822JD)'
<8 9# ' J ' 2# ' 8 D)'
' # ') 8 << # # 8D)<<D)' ' 8'
< ' J 8' J2F # ' 0<8<J ' ,4Y

9 ' ' <8## # ' ' ' ' ' '
!
J !' !' 8 ' ! !' ' 8 < JH 2 '
' # <# #J 8' 8< F#22 ' D)< ' .D) < # '
' # # D) #J ' m ' : 22 D) ' 8#J 8 ' '
? 22 D) J #I# '<# ' ' <F# # 8' I_ D)82J '
I2 ' <F#J 8J D##
D) ' F< # ' 8' ? 28 29)' ' 8 '
#<# JD)< D) ' 2 ' .# < E# ' 8' 8< # 22'
D)< J D)#<J8 2 ' 8 #228 ' _ ' < D) D)<D)# '
82) E# ' F#28' <8 H 8' <

9 ' !' FG 2 # ' 2 # G # 1#2## K.C'
&# + # ## # ' JF++ ' -F ' <8+' &F -2 #F '
8 'E8' $#J #-@ JJ28-# ' 8 JH +8 -#-'
1F E ' 8- ' , . BY' 8EHF-' 1#2 -' JH E##
#+ J + ' 8X' + J# 8' , ' F-' H+#- # 0'
F-Y' +8G
4 9 ' !' +8 E F-' JJ28-# ' 2F 0' . . L'
18+ \' 1# E I# @
X' SF ' < --8--# 8 ' # F# ' 1#2 -'
J2#8 8 a' ' 82 + '
+8 E F-' E' 1# 8 ' I# a' -F
$+ -<8+8' <+ J8--8+ ' +8-' 8UF-'
E8 ' <+ < 8+' #F 18+
9 ' -J8 -# ' +8 E # # ' JF++F' -F ' # '
8+8
9 ' !' I8 # ' < - +8 ' ' 8 +#a' . " '
H # ' <8+' &# ++ # #F ' 1#2# ' 8+ H 2##@'
F-' " H+ # 1#2## & G +E# 8G#-'
2 #a ' , . . Y' $FG ' 2 8 -#F ' JF '
+FE8 ' 1#2# ' #2JH #-' 8G8' $#J +
F-' F # ' 1#2## 8EH# ' 1#2## JH
E## #+ J + ' JJ -# <8+' &# + # #F ' 8'
8+ H8 #2 ' J + ' <+ 8J # 8 ' + # F '
<# +F ' ! ' 2F -0 #228 ' 8 ' #- ' J F- '
1F# ' <+ 2## F28E+8 I 8 -#- ' , . KY

BJC' 5' 3 =5!' ;= ' 4 878' '8 " 8';' 24 75 5 ' K' ' (:5 8' 14' 37" 2 (') 45('5?' =' 2'=5' (' :4; (') 7'; ' ' <4 '
' 5" 1488(' ?4) =' 8'5' =' 84' '7('5<4 ('!Q' =5!' ;= !' (55!' -- ' (8 !' ;=1!' -- !

B- C' ;;248'(' 45;3= 458'8' <=5?((' 48 ' (' =1 (22=' (55=' -- !
B! C'] (:3 (578' '8' =:'' ' 4 2(1' G79 (' 2(34 4" =?';41 (T'# I' - !' =5<4 ' . 4 !' 0':!' !2 ' =2!' @!2 Z!
B- C' 724? 4 54' 2=;78' 48 ' @<=@4' =@'?51' 2' 55 '551 ' '5' 4 '=54' (: 'A' (?' =@@'?" (67 =541!) A2'51'
'8 7?' 4<4 75 ' %' !' (?' (55!---!' 4?' 55(2!' 2 T 4; 4' (?' (55!' - ' 4 ' 49' 4'8' 884 !' @! !) ?(15(5''8'
'565' ' K' !' =251 :(5' (55=' ,?=' % ' # $ ' ' A ('8' 4 =' 87A' 92'' ' ?4' ;= (' '!' 4!' ?4' 0':4 5'(' (?'
K' '(55'(5' ' @ =' 3 '8 =' @4 4 '56 " =245 41' 45(' (`884!Q' ! ' ;!' !
9' '=5'458':''8' 5'12':78' '5 422' '158 ' (55=' - - ' =;;'851' <7'884' . 4 41' 4 1 ' '(1 45G78' '58'?'(8' (;' =?'71'
;(@' (24' ?4;2'5(5 41' ! =2''1 :(1' '5' '(55'(1' 84;488'884' '54?' ''8' 'A' 4G78?41' (5; " 8; '@ =' @ =?'?' !'
(' :'455'=' ;' '58' '5' '(55'(1' 45'884' ;=58 (' 4 ' :'455'=' ?'7 '78' <7'884' ':'?41' ;=11= (51 ' 67(1'
(' 4?(' (?' 7 !' 71' 45'13';' 84@72 71' <7'884' '2'71' ?';(2' @=8 ' ' # # ' 49' 65=' '@84' '(55'(1'
@ A?';(7 ''8' (?'' ' N ?(15(578 ' ;7" '7' =2=1 :A' 4:78' @ A84 '1' 1 (G=' <'?48' 48 ' (?3':45?(' '5' '(55';('
'22'78' @4 4 '5('=54' ' (55=8' ;=1@2y 48' <7'884' ;=5<' 1d '65':''8' (:' (55=' 1= '8' '@8'58' - Z' ?4?54 '8' ;2'565' = '
- ' (?' 6741' 5(' ('=54'5' =271;'224' ?4' 0':4 5'(' '5' 55(2':78' %2 =5'458':78' 4'((1' '5 45'178!

" ' !

!

.K 9 'Uf E# # #28' 1J<8 #H 8'0< <' #D)<0'
' J' 8<)#22' qIf8< F<' _' # H 22'
J' _ F#<J8I#JDD##.2# F8' <J ' _'
?#2 ## <# # ' 8K # D)' _' E)# # ' #8' F 8H'
_' A28#Y' 8' "D)82# #< J)<FE' U2' <'
Uf ' ' < ' ! !" ' 2### ' '
! ! !' , . _Y

_' 8' J# H' ' # # 2YD)# # '
2 ' J8 ' F<1' # ' <# < ' 8' #<' D,'
' J' <2FD)# ' ' # ' <J D) @'
#F z # ' ' 82## ' ' J JH822')#< @'
<' # J' # 2#JH8' JF<' 2#< @
<8' ' <# ' 8<' '
I_D)J 8')<2#F ' # 8 #D)@
<' 2E# ' <8<D)<' ' F H'
D) D)#<' 8 # ' <)<' ')FD) '
0n< 2Df)8J # ' <F#2J' F# 8'
' ' 8<8 ' 0<F#<<8

)< 88 ' J' 8 #F<) ' #<8' ' <#$ '
#< 8' ' h<F ' ' #D)<# F#J@ F J '
#8' h # #) ' 8' D)<D) ' J' <)#J' J0#

J!!U!' $+ 82#F ' F28E+8 I##8 -8' J + '
&# + # #F ' 8' 8+ H8 #2' / 8+GF-' 8 '
& ## 2EF-' EF ' 1#2##' F+J8+ G#' 1#22#' +8 a '
8 ' #+8F-' 1#2#F-' ! 8E 8# ' 8 ' # #E#F-'
1#2 -' &F JH# ' 8 ' 8EHF-' 1#2 -' J2# E##'
#+ 0J ' 8X' J# a ' I#J +8-' 8+ '
<8+' + # 8-' 2F a' #228 ' E#J8 #-@

' &8F-' SF I#-' -FJJF+-F ' ' <+a0'
8 ' +X@
$+aJ#<FF ' +81FG#F ' F ' SF#' <+ 8J +'
8-' #-
X8+J# F-' SF#'# J8E# ' JU+ F#8 -' GG8+8 '
! J+F
- ' F ' 1###F-' # #SFF- ' 828 +#-' # -#E##-
- ' h+8' &+F#E +F ' I 8 8 -F-' @
' / #2#' & 8#' <+ 8' # #' FX#2#F ' + #
- ' F '] F-' SFa' < +# ' I#J +#
: F ' # 8 ' 8E F-' JF ' 8X8+J# F
! GF#-' 8E #' 12 I#0J #'
8 8E#J # ' # 8+ #a' # -8SF# F+' 8F

' / + JH F-' 1#2#F-' 8 F#- #' #-' 1F# ' SF#'
<8+-F -# ' 8G#' &# # # ' F ' 8X<8228 8 '
&+F#E - ' , . CY' F F-' 1#2#F-' &# #

B C' 5' 3 =5!' ;= '8';O !' ' ' ' -'$ @8 ' ' #' ' '('p'5)
! ' ' - ' '$ -'$ ' O t- ' ' '' ' # O
' '! 1 ' ' O@!' ' ' # ' # '
+ ' ' 'e ' '- O ! ' '1 # ')'
0 $ # # - O . 1 $
#' ' 1# '1 ## O

B- C' 9@728'=541' 72?71' 49' 0':41'(' 3=;' 41@= 4' 141= (5'@z '4 ' 55(248' %' ('8 = !' 4 ' =5'84!)'
5'?7'5' @27 (' 48 ' '(' 1 (545 ' '5' 55(2':=8' '8 '8' 4 ' '5' 4 5(;3= ' '5' 67':58' (:= 71' ;(2 (8' 4 ' @ (4'@54'
674 ;78 ' 8(4@;' 445 ' !' %'?'178' 87@ (' '5' 5((2'= '4' ?4' @ (42'=' '22=85(?4584' (?' (55!' ' @(!' , ' '5'
787'<'''884' ' =8' '2 '8 48'<' 7 (' 4' (@@422(4' := 71' (5 4= 71' . (1=8' 15@4' 1=8' 48 ' '(7?(5?' 0':4 5';78 '
(:' (:= ':78' (; '8' ?74 58 ' 67'' 5=5' (=' 445 ' !&!&
41= '(1' := '8' :=5'' 4 ' 1 (2' ' (674' 4 @?5 '8 ' 84 (4 75 ' =1548' <4 4'55 '671'] 45 48 ' 7 '5((' 2'5'78'
?4' 7'?':78 ' ! ' ;!' !' 0'5;' ;7'2':4 ' 4=' @ =@ '71' (:= 41' ;=584; (4 75 & &'

K' =@'?78' 2;'?(0' ('88'1 ('%' '8'2(;;3=)
K' = 1=8(4' 1L 78'%454 ' '87('2(7 4(' 31:=!F' %R 22!' ; = ! !

(9'178' L '78' '884 !' ' 5(('] (22=8' = 41' ;=24 4' ;7G78' 8' 571' 4 ' (7(' 4 (' (2 '88' 1 (' 674 ;=8!)'
: (3('578' 84?41' 87(=' <'9'2' '5' s74 ;4 =' + # ' 7:'!' 2 ('' 49 (; = ' 8(;''<';'(' 4=' %4 =' = : 72' ' 4 ' 5 42=8'
3=8@' '=' 49;4@' !'] 45!' 9 ''' ' !) !' 0'4 =5L178 ' '5' 2': =' ?4' 2=;'8' 04: (';'8 ' '567' ' 4(1' '@8(1' 674 ;71' + #

! !

Z D # #18 I# 2D) # 9)#U# 8 |1#FD) 2# b9m D)0 JH8 U = JJ)#<<< ? F !' ,1Y

?9 " ! JH JF#28 # 1J18 F# 8 H+D)) I# .#D)v F#J 8 8< F#22 <#D# c28#Z 8 Y<8 D)# # # `4 8 2#JD) I #Y9 #< D)#J <F #J . ?

9 ! "W# 2 #228 & u ; X2[@ D)JH D) D)#<80 PHD)#1 $ $ <F#E # 2# <#D) 2 F#) 8#22 # FDD#<J J D) | <J<D)JD)< I# I2# <F#J0 y 8#2JH # y28 <8JJ 2YDD8 # 8 F# # 8 # H<FJ # 2# , . LY <N Iy<# <F#J w T 82 D)# w 1$ B1 L # JH18| F8 8<J8# # 28 w D)<#X) 8 2D)#< 8 1)82< J8

,K Y <J <) 8 < <) /1Z
2 > b #<8 2 EF)#<
M2 F< 8 < 8 +F) J8<8
I## <# H <F#+H 8 J # y28 <8JJ

1#2## ! + # 1#2## + J# 1#2## G # - 1F# SF# 8X<F -# &+F#E - < - 8 SF# - 2F- JJ#-F- 8-

9 " ! $+ 82#F F#2F# E-8 # 81 J + &# + # #F 8 8 + H8 #2 G8- F 8E 1#2# +8 E F# 8G8 811# 8 # SF &# + # #F- 1FG#

9 ! I#G c 2F -@ #22 - E .K -F2 2 8 8 #- -FZ BA

$+ -2#F , # 8 $ 0 2FE#- : F8+J8 # H+ #Y J8 + $#J - G8- F <8+ ' # 22 - +8 28- # SF JJ -# -F -8< 8 G 8- 8 $#J #- J 8E 1#2# +#JJ# ?@) 8E F- 1#2#F- # JF 2#SF# F- $#J +F <FG I# J + K 1 #2# G # 8 22# ,# 8 #1 8 8 +J 82 Y JF FXc2# +# F- 8+J8E8 J EFJ #- 8 (J 2 - #F# 2 c+G E8 SF <+ 82c 8 1 82 E J8J# #

2 G +8 8E#E8+8 JF # G2 E## 2 0
G +8 I#+# # J < 8(5 7'54=
: F8+J8 # H+8 -#-@
$+ < 8+ < + # # 8 # #SF -8< 8
+8G8- $#J +F JF 8E JF2

B C s7(8?(5 ?4875 !

-8 (?''8 (: 04: =5(?'i (5 41U 78674 (? =58 (5 '5 $?(5 41@= (<= 5'884'N =5 47 =8 (1 . 42' '=5'8 ;(78(67(1 4 =<'('55'8 ': (557('1 3h:' =8 848 R = 41@= 4 8; ':75 = =145! O'8 ! !, ;! 49 4?!] (4;(.! 4@3! 4 @'@3(5! 01 ! ! @! M 4?! 4 (! 4 4 (5'1(? ! !, @ Z =2=5'(4 <=2! ,!) 4 # $ $ 67((;=:68 ('=8 ';341=51 4=8 84@42' (? 87(78654 41@= (@4 ?7 (5 4 @27 (8; ': < ';(5(8 (@5? ''84:! @!,, 4 L5;4225 1 @! Z 67 (? 4G78 8 '@' 41 2 (4 4 4; 71 <7'884 5((5 (? 65=? '5 ;424: '= ':78 ;=5 45 ':58 '8 '78 4 '=528 5;=2(8 ?4 = 4 (;;4?4:(5 ! (4 ;(2' 4 '5 5'1(?%! (? 584:! @! !) 7'?(8 '1 1(54 8(; '<';'71 37 5(571 (: 4941@2= : (3(1 8((;71 =:2(5 ?4?59'884 8; ': = @3L '58 49 \ ; '8!) =58''4 7?'541 87: (:= ':78 @ 8484 '1 674 ;5:58 8(; '<';(5?' 1(2('1 ('=54 (: 4=?41 <=5 4 ?4?79'884 (5((5' (8 8; ': 074 '78!
? 7'?51 ?4 := ':78 8(; '8 ?=; '5(1 48@49'884 '?4 7 '%' R2'78 <<'5! ! (4 (:= 4 =@(;(7 478)4 <=2''8 4 245 ('1'54 (1=); 8 #) 4 7'?':78 O':4 5';'8 '?4 8=@ (@(! Z) MZ 4 . 4 ! O':! ! 5?';48 =;4 5??' ! 1'3 L5 (1(?4 7'?'8 t;! ,(! 5?'5 !
B-MC K ww ;\- 1# D C - C 1 1 - B t;! 3 =5! ;=!
B C 5 3 =5! ;=!)J1 '58 <(=:(<) '1 1=2(?4' ='4I =3(?:3(;=1 (5?(5(? ;4 !Q :'?!

BB ' ʿ !

! !

.

0<#JJH8<ʿ JD)JH <F#E# 8ʿ ʿ F#28ʿ _ʿ <ʿ 2 #0<JJʿ
82 8
q$#h2#>ʿ JD#J # 2#1<#ʿ _ʿ JD)E# JF#280
|<8# H 8@
2I4 5& ;ʿ 'bU227 ="-bU'2& 'Z#U@ 'Vʿ
J2#FF <ʿ #F)JH
q<8< ##<ʿ T$) D ʿ _2# # #<8ʿ _ʿ 2#+#|# H
8ʿ |#9)JH

" 8--81F ʿ <+w[F ʿ $#J # 8-ʿ 8ʿ J U00
--8+F ʿ # 8@
" 8--8+F ʿ <+w2#F ʿ " F+ F ʿ #11#8 -8ʿ
8ʿ $+w2#F ʿ ###280E+8I 8
- ##28+F ʿ -#E8-ʿ JF ʿ < G 22 @ ʿ
< - 8ʿ H8- F+ -ʿ 2 8 8-ʿ #ʿ !<82F J#-
/8+GF-#F-ʿ & 2EF-ʿ #+8F-ʿ 8ʿ
9# #E#F-ʿ 1#2#F-ʿ &F JH#

& ʿ & ʿ !ʿ

!ʿ 2F ʿ ʿ .K ʿ JF ʿ ʿ 4 ʿ) 4 ʿ # ʿ +2 # ʿ 8Xʿ
8+ # ʿ + - I#G I#--8ʿ ++ ʿ E F-ʿ ʿ JʿB @ +F ʿ 2 GF ʿ 8Xʿ <<8 E#J8ʿ
!ʿ # # -F<<28ʿ --8+ʿ <ʿ KLBʿ H#-ʿ I8+ #-@ Mʿ 8J -F ʿ EF E8J# ʿ I#+ +F ʿ # ʿ
Mʿ SF# JF ʿ !ʿ 2F ʿ E8ʿ !J # ʿ <+# ʿ 8UF-ʿ + -# Fʿ Eʿ +# # ʿ + - I#G I8+F ʿ
Mʿ &F ʿ 1#2## +8 E# ʿ 8 ; ʿ SF# 8 # ʿ ! J # -FJJ8-- +ʿ 2F 8ʿ 8ʿ / ʿ 1+ 8+ʿ
Mʿ 8UF-ʿ ʿ ! J # IF JF2F-ʿ 2F 88ʿ) ʿ 8UF-ʿ # #- + +ʿ # ʿ 7 ʿ
Lʿ EF ʿ 1#2## !# E #ʿ + ʿ 1#2#F-ʿ +8- #2ʿ 1#2## E #ʿ 1#2## 8#2@ # G ' ʿ
Lʿ ʿ % G ' "E ʿ / ʿ / ʿ 1#2#F-ʿ + EF# ʿ 1#2## 82G#0" +#22 Q
ʿ -8J8--8+F ʿ ʿ SF ʿ ' ʿ <+ 82#F ʿ G8- ʿ 8- ʿ # ʿ SF ʿ 8+8F-ʿ
1#2#F-ʿ !8 #ʿ 8ʿ 1#2## F+J8+ JH# 8ʿ +J ʿ & 2EF-ʿ 8ʿ /8+GF- -ʿ < - 8ʿ 8G8-ʿ F #I8+- -ʿ
8+ # 8ʿ I#J +# ʿ +8< + +F ʿ F # 8 # ʿ # ʿ F28E+8I 8 -8ʿ 8ʿ #8 #F ʿ J #-- ʿ Xʿ
<+ 2# ʿ E #+8ʿ M 2 , ʿ 8Xʿ $#J +F ʿ # 8+ # 8ʿ I#J F-ʿ JF++Fʿ 8I -# ʿ ,K Y
E #ʿ I8+ ʿ -F @Mʿ $ -ʿ 822F ʿ F28E+8 H8 8ʿ -#JF # #-ʿ + E# F ʿ 8- ʿ
Mʿ EF F-ʿ + - J #-ʿ #-ʿ SF ʿ 8 < +8ʿ ; #+ʿ 8 F-ʿ , 2F Yʿ E8ʿ !J # ʿ <8+8G+# F+F-ʿ
Mʿ <+# # F-ʿ 8 I#G I# ʿ SF E ʿ E#8ʿ H Jʿ 8- ʿ 8 E8 ʿ H + ʿ SF ʿ # ʿ !J # ʿ J #--F ʿ 8- ʿ
Mʿ 822F ʿ SF Eʿ !J #J ʿ E#J# F+ʿ * ʿ #E8 ʿ H ʿ &8# J + ʿ 22 ʿ 8G8ʿ 1#2# ʿ
Mʿ G#22ʿ # ʿ +# # ʿ 8 I8+- F-ʿ <8+ʿ # ʿ 8 ++ I# ʿ + ʿ E8ʿ 822ʿ J # #-- ʿ SF ʿ
Mʿ 8 # ʿ E8ʿ #22#-ʿ 8G# F-ʿ SF# F-ʿ & # F-ʿ E8ʿ # # #J#-ʿ ; #J +# ʿ J E I# ʿ SF +F ʿ
Mʿ <+ <+# ʿ I J F2 ʿ ʿ 1#2#F-ʿ !8 H#ʿ 8ʿ EF ʿ 1#2## #Jʿ +J8ʿ) ʿ ʿ 7 # !ʿ
Lʿ !8Eʿ 8ʿ E8ʿ 8G8ʿ +F# HF# # ʿ SF# ; ʿ ʿ I J# +ʿ SF8 E EF ʿ I#J F-ʿ
Mʿ JF# F# #H-#E8 -ʿ 8I -8+# Q NJ @
F-ʿ 8 #G+ # #-ʿ !ʿ 2F -ʿ ++ F+ʿ ʿ G ʿ '& 822ʿ # ʿ ; # ʿ 2F -ʿ !ʿ
+#G# 2# # ʿ E28# ʿ # 8 ʿ # ʿ E # E#J8ʿ ʿ ! 8<H ʿ ; # ʿ Eʿ --8+#F ʿ #--

B Cʿ #49ʿ '; =575ʿ ' (55'Aʿ 3=;ʿ 41@= 4ʿ <7' ʿ # @ @+ ʿ ?4ʿ 67=! 85@ (ʿ @(! ʿ (55! - ʿ 6741ʿ
=271:(ʿ (?ʿ <'?4 (ʿ ;=5 4 ' ! '1= ?! @! -!! %'?4ʿ '5< (U 5= !! !

) & ' & ' !' B.

$+# +E' <'L A0B' 'S## 8' 8X ' # ' ! 8<1 #' E#J8' 'H H8 F+' # ' 2##-'^ =8SF8'
I8+#-# #28' 8-) G8- ' 1F#--8' <+-82### ' ' J+F8 F ' <+ < 8+' 2# +# ' -8E' < + * ' <+ < 8+'
J F- ' 22 ' ' #G8 JH ' -F<+ ' ' .K ' 8 ' < + # ' SF# ' # UF- 8' ' ! E ' # 8+ #J '
8XJ F #J F-' 1F8+# ' ' .K ' < F2 ' < - ' <+182#F ' F#28E+8I 8 -8 ' G8- F ' <+ <8'
&+ J2#11 ' # ' 1# # F-' <J# 8' 8 ' 2 #18 ' # ' SF ' ' JJ#-#' 1F8+8 ' 2F ' F ' 18+8 0'
+' # - #G 8' 1 ##2# ' -F ' E8' #+J 82 ' J + ' 8G8 ' &# + # #

XJ F #J F ' 1F#W-8 ' 8X<+8--#-' I8+ #-' ++ ' E F- ' ' ' J ' @M' F ' '
L' SF E ' ! E ' <+ ' SF# F-E ' I8 ## 2# F- ' 8 ' ' 8XJF- #2# F-' J F-#-' ' +8J 8 ' F '
M' < - ' # ' 1# 8' J2 +F# ' ! J F-' 8XJ F #J +8 F+' 2F ' E' 8 E8 #' J + ' #<-F '
M' J 228J ' I8 #' G+8G # 8 ' : F8 ' JF+ ' 8 # F-' <<+ <# SF 8 ' ! J F-' I#E#--8 '
M' 8 ' #22#F-' - 8+# ' 1F E +' SF E' ! J #J8' 8 ' F JF< F+' J# #F-' -F+G# ' 8 '
M' # J2# ' 1 J#8 ' 8F ' I8 8+ F- ' 8X -JF2 F+' : F8 ' JF ' 2#SF#' #22#F-' ! 8 # +8-' 8 F- '
M' -8 +-F ' 8 ' J 8 8+#-' +8E +GF8+8 ' -8 #- ' E#J8 8- ' SF +8' J + ' 8XJ F #J '
M' -F+G8+8 ' 8 ' 8F ' 8X -JF2 +#' ' +8 F8+#-' f 2# 8+' E' 8 -' # SF#8 - @ -#' I - ' # ' I#E8+8 #-'
M' 8 ' S 8' #H#' & # F-' H J' # ' E#8 ' E8' H J' -F ' SF8 ' E8H + #- ' 828J ' #18- +8'
M' ' E8E#G F-' 8- ' F SF +<' 8XJ1' F #J --8 #- ' SF8+ ' 8F- ' ' - 2F ' -8JF EF '
M' I8- + ' o ' +8J ' -8 8 # ' 22 ' 8XJ F #J ' E8 ' -8E' 8 # ' G#-' SF8'
M' G#-' G #1#J ' 22#' 8' + ' SF E ' #F ' F ' E#J#- ' #<-F ' G2 +#1#J ' & 8F- '
M' SF8 ' -' ' -# <' J F- ' 8XJ + F #J I# F- ' -J#+8' JF<# -' f@ G #J ' 8 ' I 2E8'
M' 2F # -V ' #' +8 E F- ' J 2F ' I#E# ' 8F E8 ' SF8+ ' I -' E8-<#8# #- ' 8J8E8 8 '
M' & 8#' H # 8 Q' NJ

! 8<H #' ; # #' ! ' E8X' H#- +# + ' +-82##' F28E+8I -#-' 8 ++ - ' -F UF G# @M' 2# '
M' 8 < +8' SF ' H 8J' 1#8 ' ! 8 # +8-' # 8 # -' #-8 # ' <8+' F J# -' 1#E828-') #-# 2 '
rr' E' ! ' " #2E ' , E #JF Y' E8' G8 8+8' ! X F ' ## ' 8H +# 8 ' F F ' F +#+8 '
M' F SF8' 2# 8+ -' <8+' +E# 8 ' 28G8+8 ' , " #2E -Y' 8 ' <#- 2 ' ' ! ' 2F ' -J+#< F ' # '
M' # F-' 8 8+8 ' - # ' #22 ' -JF2 F-' 8- ' E#J8 -@ ' SF#' -J+#<-# ' H J ' ! <#+# ' ! '
M' <28 F-' 8- ^' 8 ' # ' F F-' E8' F J##-0) F ' E#X#- #' # ' 8- ' ! 8E' + 8 ' ' ! E ' # 8+ # ^'
M' +8<+8H8 E# F+ ' 8 ' SF E' G 8-' -F8-' # ' <8+#J 2 ' + #-' J - # F 8- ' 822#G8+ +8' UF--8+# '
0 F J' ! ' " #2E - ' +8<+8H8 -# 8 ' H J' E8' ! ' 2F ' FE#8 - ' +8-< E# ' ' SF '
M' - #E F ' 8- ' G8 F-' I8- +F Q' NJ

8E ' E8' ! 2F ' # SF# ' #- ' ' J ' B @0M ' J + ' & ' X I ' SF ' 8 < +8'
M' GF 8+ JF2F ' #' <8+## ' < - ' F- # # F ' F- # F-' # +' JJ8<# ' I8 # ' E8'
M' # 8+ # ' $+8- 8+' 8 ' - ' H # F' 8 ' I# ' JH#' # -#G U- ' # 8' 2F '
M' +# # ' <+ 8E#J F+F-' I8+ F ' & 8#' $+ I# J##-' ! 8< 8 +# 2# F-' $#J +F ' H J' 8- '
M' 8#-' SF#' +EF#- ' SF8' H # 8 # F-' #F ' UFG#- ' ' F- + 2# F-' 8 +F ' -F ' +8G# # F-'
M' -8SF8- + 8 Q' NJ

&8# E8' ' . ' J ' @M' + ' 2F ' <+# F-' & J +' 1#E8#' H+#- # ' Z' ' - #-'
M' $#J #-' E' SF#2 8 ' <+H F-SF8' 1F E +' - 8+# ' SF E' # ' ##' -F2 ' F2 #-' E#

Mʿ ! J +F #ʿ $#J +F SF8ʿ < <F2#-ʿ I8 8+ #28ʿ -# ʿ : F#ʿ I#E82#J8 ʿ 2F ʿ F Jʿ ʿ
Mʿ F22#- ʿ J < -# ʿ ʿ 822 ʿ 8 ʿ 2F ʿ # 8 ʿ / G / ʿ I J F+ Qʿ)
g8+F-ʿ E8ʿ 8 E8 ʿ # @ Mʿ ʿ ! J # ʿ v -F2 ʿ # 8+ #w ʿ E8< -# # ʿ ! 2 # w ʿ J G 0ʿ
Mʿ 8 ʿ <FEʿ -F -ʿ 2F 0g#22#ʿ 8 ʿ SF Eʿ F2 +F ʿ J822 +F ʿ # ʿ 8 ʿ - 8+# +F ʿ I82ʿ
Mʿ JJ28-# +F ʿ # - # F + ʿ 1F E +ʿ 8 ʿ 8J +ʿ 8 # F8+# Q@ g8+ʿ Eʿ ; ʿ E ʿ F ##
&8ʿ ! ʿ 2F wʿ ; # ʿ 8 ʿ I8+ #- ʿ F22 ʿ ʿ) W ʿ E ʿ -J+#< ʿ H 8+# ʿ # ʿ 8E ʿ
ʿ J ʿ B ʿ 8 ʿ F # 8F ʿ 2 F ʿ # +F ʿ E8ʿ I#+ F # F-ʿ ! ʿ 2F wʿ -J+#<-#--8 ʿ J 1#+ ʿ
SF#ʿ 8ʿ 8E ʿ -J+#<-# ʿ E F- ʿ ʿ ʿ J ʿ . @ ! F UF G# ʿ E F-ʿ Mʿ 2F ʿ # ʿ
Mʿ 8E# 8++ 8 ʿ # 8+ #wʿ < + 8 ʿ - 8+#F ʿ SF Eʿ ! J #J ʿ E#J# F+ʿ) G # ʿ ,H E#8ʿ
L ʿ &F++ Yʿ &# I # ʿ 1F E --Tʿ F F Qʿ ,KAYʿ 8 ? 8E ʿ Mʿ / 8J8+ ʿ W ʿ ? ʿ 8 W ʿ
Mʿ " W ʿ - 8+#F ʿ #28ʿ # ʿ # 8+ # ʿ SF Eʿ ʿ J <# ʿ + +F ʿ) G # ʿ 2# GF ʿ
Mʿ ! J +F ʿ H Jʿ 8- ʿ J <F-ʿ +F ʿ J G # F+ Qʿ ,K Y
&8ʿ 8 < +8ʿ E I 8 F-ʿ ! ʿ 2F wʿ # ʿ +# # ʿ <+w 8+ʿ E#J ʿ # ʿ 8+ ʿ # ʿ ʿ 8 ʿ
-F<+ ʿ HwJʿ 8Xʿ 8E ʿ E ʿ JJF++F ʿ
Mʿ ; 8 # ʿ +# # ʿ 2F ʿ +8G 8ʿ $#J #-ʿ 8 ʿ ,KBYʿ 1#2# ʿ 8#2 JH ʿ 8G8ʿ
Mʿ < 8 #--# ʿ ʿ ʿ +8G #ʿ 8UF-ʿ ^ G8 8 SF8ʿ #22 U ʿ I8+ ʿ 8 ʿ 8X8 <28ʿ Eʿ 1#E8 ʿ H+#- #ʿ
Mʿ J I8+ # ʿ ^ F E8ʿ 8 ʿ <+w1 ʿ -F2 ʿ , Yʿ ʿ 8#-ʿ # ʿ < --8--# 8 ʿ - 8+ [ʿ 1 J#8 E#ʿ
Mʿ JJ8<# ʿ 8SF8ʿ 8 # ʿ G ʿ 8- ʿ -8Eʿ SF -#ʿ 1 #2# +F ʿ SF# SFT ʿ UFX ʿ 8- # # 8 ʿ
Mʿ G2 +F ʿ SF ʿ -FJJ8-- +8-ʿ 8UF-ʿ F-SF8ʿ H E#8ʿ 8 8 ^ʿ F #ʿ 8 ʿ #<-8ʿ -8<F2 -ʿ 8- ʿ ^ JF ʿ
Mʿ 8--8 ʿ +F ʿ __ ʿ < - ʿ -ʿ J#+J# 8+ʿ XXX##ʿ 8X ʿ SF ʿ #<-8ʿ +# # ʿ <+wE#J +F-ʿ E## Qʿ
&8ʿ 8 E8 ʿ g8+F-ʿ # SF# ʿ Mʿ 8+ʿ &#-J#<F2 -ʿ -F -ʿ F F ʿ G822F ʿ -J#2#J8 ʿ / F- #ʿ
Mʿ # 8ʿ #22F- +8 ʿ $+wJ8< +8 ʿ 8 #--# #ʿ 2F #ʿ G#- +#ʿ & # #ʿ 8 ʿ $ +#-ʿ - +#ʿ
Mʿ 5 ʿ I#+ F F ʿ Jʿ 8+# +F ʿ SF -#ʿ F #JF ʿ 8X8 <28ʿ - J ʿ +82#SF# ʿ Hw+8E8 Qʿ
#F-ʿ 8<8~ ʿ # ʿ H+ #J#-ʿ G8 8+ 2# F-ʿ +E# #-ʿ ! ʿ 8 8E ʿ Eʿ ʿ . K . ʿ J ʿ A ʿ # ʿ
Mʿ # E I 8+-F ʿ +82#SF# F- ʿ # ʿ -F<8+# +# F-ʿ #- ʿ G F ʿ JH +F ʿ w # +#F SF8ʿ
Mʿ F 8+F ʿ # ʿ # 8+ # ʿ -F2 ʿ 8 < +# F-ʿ #-J8ʿ 12 +8+8^ʿ SF +8ʿ |<8+wʿ <+8 #F ʿ 8- ʿ Eʿ
Mʿ #22 ʿ +8E8 F-ʿ +8G# 8 ʿ 8Xʿ SF ʿ SF ʿ 8Xʿ 2 I 8 +# F- ʿ +GF 8 - ʿ JH +F ʿ
Mʿ 8X # ʿ Eʿ I +# -ʿ + #-ʿ # 8-ʿ <+ E# ʿ w28- 8-ʿ 1 I -ʿ # 8+ʿ #<- ʿ J - +F# F+
Mʿ F# ʿ # SF8 ʿ # 8+ʿ 2# - ʿ -F ʿ #E8 ʿ 8 <F- ʿ # 8+ # ʿ # 8-ʿ J G # -ʿ / Gʿ
L ʿ , a ʿ SF +F ʿ 2 8+F 8+ʿ ʿ 1F8+# ʿ #22F- +#- ʿ F ʿ - 2F-ʿ -F*1#J8+8 ʿ Eʿ # 8 ʿ J ʿ -8ʿ #<- ʿ
Mʿ #22F- + E ʿ ^ 8 ʿ SF8 E EF ʿ # ʿ # # F- ʿ # ʿ # ʿ G8 8+ -#-ʿ J # F- ʿ E8ʿ I G2# ʿ
L ʿ # 8+ʿ 8X 8+ -ʿ G8 8-ʿ $ G -ʿ E#--8 # E ʿ 8 ʿ w ##-ʿ # 8+ʿ wE#1#J E#- ʿ -# #28-ʿ
Mʿ 8X # 8+F @ +F ʿ 2 8+ʿ 8+ ʿ &#-J#<F2F-ʿ ! ʿ / # ʿ #-ʿ # J2 #ʿ #22#F-ʿ - 8+# ʿ
Mʿ 8 ʿ SF# ʿ A ʿ J # F-ʿ 8 #- ʿ # ʿ G2# ʿ <+# ʿ # E8ʿ # ʿ " 22# -ʿ <8+I 8 #8 -

B ,Cʿ ?(1 5!ʿ ! ʿ ; !ʿ ʿ ! , ʿ ; !ʿ Z ʿ ! ʿ ; !ʿ M!
B Cʿ 4?!ʿ ! ʿ ; !ʿ !
B Cʿ 7?4 7 1 ʿ 2 7 1 4ʿ '5 4 1 = (ʿ ?(55!ʿ ! , ʿ ; !ʿ ʿ ; !ʿ ʿ 4 ʿ , , ʿ 7 : " (ʿ 3 '8 '(5(ʿ <'?4ʿ (2'4 5 5 1 ʿ <7'884ʿ &'557' !ʿ
'?4ʿ 87@ (ʿ 5!ʿ !ʿ 4?(ʿ 4 (884ʿ '?4 7 ʿ '5ʿ ʿ (55=ʿ 7?4' ʿ 87@ (!ʿ . 4 5(' ʿ 45'1 ʿ (: ʿ (55=ʿ - - Z!

q ʼ J ʼ < - 8 ʼ # ʼ 28 # ʼ E8 ʼ # ʼ 2# ʼ 1 ʼ J8--# ʼ < - SF ʼ JF 8 -ʼ H -ʼ 8G# 8-ʼ Mʼ JH +F ʼ 8-8 # F-ʼ Jʼ J I8 # F-ʼ +8<28 I# ʼ E8ʼ SF ʼ 2 8ʼ # ʼ -8SF8 # -ʼ + J # F- @ʼ Mʼ 8F# ʼ 21 # #ʼ Jʼ &#-J#<F2 +F ʼ 8UF-ʼ #- +##8 ʼ U +8+ ʼ 8 ʼ <+ a J#<F ʼ < + 8 ʼ EF ʼ Mʼ - +#ʼ #ʼ J F< F ʼ 8Jʼ E8ʼ H Jʼ # ʼ <+-8-8 #ʼ G# F- ʼ -8Eʼ E8ʼ 2# ʼ 1 - ʼ 2F ʼ Mʼ E8ʼ SF ʼ ; ʼ 8E ʼ ? ʼ #- Qʼ ,K.Y

! ʼ 2F 8ʼ J ʼ -J+#<-8 ʼ <+ 8 8+ʼ -ʼ F2 - ʼ ! ʼ #8H -ʼ J 8IF-ʼ 8UF- ʼ F1+ʼ # ʼ qP +-8#ʼ !J+#< +# F- ʼ ʼ J ʼ ʼ ! ʼ F # F-ʼ &#-J#<F2F-ʼ 8UF- ʼ JFUF-ʼ <F-ʼ 8E#E# ʼ #22 # -ʼ # ʼ J #-ʼ ! ! ʼ E F-ʼ JFUF-ʼ <F-ʼ 8E#E8+8ʼ #-#F- ʼ H -ʼ 8--# GH ʼ !F+#F- ʼ 2G F- ʼ 8 ʼ H FEʼ < --# F-ʼ 8SF#-ʼ $# g8+ F- ?0) 8 + ʼ 2# -ʼ E F- ʼ SF#ʼ 2F -8ʼ G8- ʼ E8-J+#<-8+F ʼ F ʼ L 7 , ʼ , , > ʼ ʼ % >ʼ SF8+ ʼ -FF ʼ &8J8-- +8 ʼ I J ʼ ʼ J ʼ ʼ 8 ʼ F # 8F ʼ Q ʼ #8 -8 ʼ ʼ ' ' ? ʼ + FF ʼ ʼ J ʼ .

< : ! ʼ H -ʼ -J+#<-8+8ʼ E8ʼ J #-ʼ ! ʼ 2F -ʼ # F H8 -#- ʼ SF#ʼ 12 +F# ʼ ʼ KK ʼ 8 ʼ 8Xʼ 8 ʼ <G+ #F-ʼ # ʼ 8G8 E ʼ F+8 ʼ 8 E# #ʼ . K @+ Xʼ H#-ʼ 8 ʼ F F22#-ʼ 2##- ʼ <F-ʼ -FF ʼ E8ʼ ; # ʼ 2F 8ʼ J <#2 I# ʼ G F-ʼ '& 822 ʼ #+J 22# ʼ $+# J8<- ʼ J#+J ʼ ʼ .A ʼ SF Eʼ 8X 2# GF ʼ 8 ʼ JH + J 8+# F-ʼ c 8 #J#- ʼ # ʼ 1 2# ʼ G+ E# +# ʼ # ʼ # 2# H8J ʼ E28# ʼ SF ʼ I# ʼ # 8ʼ +8EE# ʼ 8 ʼ # ʼ ʼ 2# + -ʼ E#- +# F ʼ 8E#E# ʼ 2G F-ʼ # ʼ +# E8 ʼ 2 J ʼ SF# ʼ I ## ʼ ,.B_

!J+#<-# ʼ #<-8ʼ 2F ʼ 8GF2 + ʼ - #J ʼ JFUF-ʼ 8 # # ʼ P #21+8EF- ʼ <FEʼ 8E ʼ ʼ J ʼ A . ʼ 8 ʼ FJ +ʼ ; 8 F-ʼ !F<<28 8 #ʼ Eʼ ; # ʼ ! ʼ # + #ʼ 8E# #ʼ ʼ 2G @ʼ Mʼ F 8+ F+ʼ ,# SF# Yʼ # 8+ʼ J ʼ <+ 8J#<F -ʼ 8GF2 +F ʼ J E# +8- ʼ SF# F-ʼ - 8+# ʼ <+ <8ʼ Mʼ # F 8+ ʼ 8G #ʼ # 8 # -ʼ +8G8 F+ Qʼ $+# ʼ 1 # ʼ ! ʼ $ +#J## @A ʼ ! ʼ +*G#E - ʼ ʼ ! ʼ +8 E #ʼ B ʼ ! ʼ # + #ʼ . ʼ ! ʼ 2F a ʼ ' ʼ ! ʼ G 22# ʼ _ ʼ ! ʼ 2 --# ʼ -#I8ʼ -0ʼ +8 # ʼ ? ʼ ! ʼ E # @ Xʼ #-ʼ J <ʼ SF# SFTʼ 8 + #ʼ 2JF# F-ʼ $ 8 8ʼ ABK

$ +#J#F- ʼ : F8+ F- ʼ !J +F ʼ G2 +# ʼ G8 c-ʼ
SF8ʼ 2F F- ʼ G 22F- ʼ E F-
$+-8J2 +#ʼ $ +8-ʼ +F ʼ I# 8SF8ʼ G#- +# ʼ ?JJ

p2# ʼ 8GF2 ʼ +8 # #J ʼ # 8 ʼ <+ 8-J+#< ʼ 1+ +# F-ʼ # ʼ +8 ʼ E8G8 # F- ʼ -J+#<-# ʼ 2F ʼ SF ʼ <8 8-ʼ -8ʼ H Fc ʼ 2G F- ʼ F ʼ # ʼ +# E8ʼ < ʼ B_ ʼ 8 ʼ E8ʼ SF ʼ P +-8F-ʼ # SF# Mʼ !J+#<-# ʼ 2F ʼ 8GF2 ʼ - #J ʼ ʼ 8 ʼ IF2G ʼ # ʼ / ʼ / ʼ E#J# F+ Qʼ & 8ʼ !J+#< +# ʼ ʼ J ʼ A ʼ !J+#<-# ʼ 8 # ʼ SF F +ʼ -ʼ 2 # 8 ʼ SF# 8 F 8+ F+ʼ ʼ P + ʼ 8 ʼ 2G H ʼ 8Xʼ 2# + ʼ +F ʼ <8+I8 F- ʼ $+ 8 8+8 ʼ H F ʼ # 8+ #J84ʼ J < -F# ʼ # ʼ 2 FE8 ʼ ! ʼ +*G#E - ʼ # J#<#8 8 @) <# # ʼ H8ʼ H#JHʼ + E#JH ʼ +#G#E ʼ 18 #

B -Cʼ (:'22=5'78ʼ 4; 4ʼ 5= d ʼ '5ʼ 55(2ʼ !2 ʼ @!, !ʼ Kʼ =5ʼ 8('8ʼ 8':" ;=58 (4ʼ 454 (:'241ʼ 4?(1 ʼ ;51ʼ (' ʼ = =8ʼ '5ʼ '(55'(1ʼ (? 45'45 48!ʼ z?ʼ 1('8ʼ 8'558ʼ @(41ʼ 84@ 45 '=5(241 ʼ 8':" 2=;51ʼ @('(4ʼ <4;'884ʼ !, ʼ Kʼ ;!, ʼ 4 ʼ (145 ʼ 0''45841ʼ 58''2(1ʼ (ʼ ʼ 67" ʼ # ʼ % - ʼ $ ʼ 8(5; = =2''1:(4ʼ ?=5(((ʼ <7'884ʼ Kʼ (?'"H ʼ ʼ ;! ! 0A;ʼ 4'''1ʼ '5872(ʼ 8' (ʼ 4 (ʼ '5ʼ 4 '=54ʼ ;= = 71 ʼ 9 ''" ;' ;' 4 ʼ ('22':58ʼ ?'88' (ʼ (:ʼ =;;'&ʼ Kʼ ?45 (2"2' = 4ʼ '22(71ʼ = '5;'(7 5 ʼ '5ʼ 67':=8ʼ ;= =1 1ʼ 4 551ʼ @=8' 71ʼ 4 (ʼ 67=8ʼ '5 4 ʼ 4 ʼ '; =8ʼ ?= 8" [[ʼ '(55';" 1=5 48ʼ ?'8 4 1'5" 4 (5 ʼ 48 4ʼ ?(15(5=!Q

8G+8G# ' &#I8+- ' ! ' 2F w' <F-JF2 ' <8 8-' -8' H F#--8' 8- F+' 2G ##-' # 8+ #J8'
R' -J+#< ' L' SF 8' G8 F# ' F H +#-' 8--8' <8+ ' <+ ' F ' - 2F-' <8+I8 F- ##-' F ' E8X'
M' 8 + 8F-' <8+ #SFF-' 8X' SF ' -F ' E8-J+#< ' +# E8' < ' B_A ' 4
$+# F ' # J#<# ' M' J#J ' h8' ' # Q' ! JF F ' &8#' E8' 2 ' 2# - ' +#J ' 2F w
A ' &8' E82#J##-' ; # w' J 8 <2 #Iw ' # J#<#8 - @ M' A222 J ' 28 ' 8#JH' D) FJ J'
FJF EF ' #H#' E8G8+8' # ' G+8 # ' -F2w
#' ; 28E#J # ' JH#-' &8+ G#8 -# F- ' # J#<#8 - @ M') J ' 9JHE<' h#D)<)8D) D) HQ'
B ' &8' 118J F' +8E8F E#' # 8+ # ' # J#<#8 - @ M' ' 8D)2 DJH' c' # 8' ' hH8 Q
#' 8' ; 2E8' UFJF EF ' 8--8 ' ' 1#2#' &8#' 8#
. ' &8' - # F-' I# w' -8JF+#- ' 8 ' E8' E#I8+-# 8' JH +F ' # J#<#8 -@ M' ?m<#<#F# 8' D)#JH' E
JH#E22' E#J ' E' E# +8 Q' SF ' 1 ' GT T+ ' # 822#G8 # ' 8 ' FE#J#F ' +8J F '
' ' 22 SF#F ' 8- ' ! ' 2F w' JF ' ! ' + J ' &#-J#<F2 ' +8E8F 8' 8X' <+# ' 8UF-'
I#G # 8' <8+' J8 F ' # J#<#8 -@ M' h#E' ' 8EE#E' < E#J' J E###YQ' I8'
+ J8' &#28J 8
w
_+ ' ! 2F # ' ! ' + J#' 8X' # 8+ # ' < +# ' -F ' E' ! ' 2F ' I8 #8 #- ' # J#<#8 -'
M < EJ' FE' 2#EJE ' 2#' H2E Q' + JF-' 8< -' # H #' -<8J#8' E8J +F-
? ' <#- 2 ' ! 2F +# ' E' SF -E ' ! ! ' # 8+ #w ' # J#<#8 -@ M' A2 # ' 8#J ' EU4' 8 8'
E#<Q' FJF EF ' 8--8' -F<+ ' I8+ #J8 ' J 22#-' ; 2FJ+F ' ,H E#8' HY
L ' &8' ! ' J 8 ' 8UF-SF8' - 8' 8 ' &#-J#<F2#-@))#EJF#2' ; 2 JJE' NJ ' F #' -F<+ ' < G ' .
$2F+ ' 2# ' # 8+ #J ' ! ' 2F w' E-J+#< ' -8+I F+' # ' E28# ## ' F ' # ' 8+F '
8+ #J +' 2 ' I# F-' 8 ? + F+' 8 # ' # ' <T+I8 F- #-' # ##-' G2#J #-' 8E# #-'
' #22 # ' # ' 28J #-' + ' A' < ' K_A ' - 8+#F ' 8U##-' ##8 -8' ' 8E ' <<822 F+'
J <F ' 2# +F ' #F ' SFw' ' 2F ' #F- # F ' -F @ M' 8+8' F 8 ' - 28 ' #<- ' -F2 '
M' # SF# ' #- ' 8J +8 ' -8 <8+' 8 ' $+8- 8+F ' JFUF-' UF+#' 8 ' #-' $+ I# J# ' 8 ' #<-#'
M' 8 # ' <#-J <#' +E# 8' # F-# ' E8 8 ' 8--8' -F U8J # ' UFX ' X8 <2 +' <+# #' & J +#-'
M' #22#F- ' -#2#J8#' ! ' 2F ' J ' SF#' ' <#-J <F-' -8E' $+8- 8+' 8X # # ' 8 ' JHF- Q
-' #E F ' Jw28- #' # F ' ! J +F ' 2 #w' 8G8 ' +E# I# ' 828 ' # F G8 - ' 8 '
8 8E#J8 -' J -8J+ I# Q' , ' ' Y' &8 #SF8 ' ! +8 E #' # F' J 2# F-' JJ8< 8 ' + R'
v ' + 3 # ' <8+' &# + # #F ' # #- +F ' -FF ' E' J828 + EF ' # ' 8UF-'
2#' E#8' #--w' ! J+#1#J#F ' <+w< + +#' UF--# @ E8 ' 1 J F ' # ' # F' 2F+ #' G80'
R' #8 -#-' <#-J <#' SF ' E#8 ' JF ' 1+ +8-' E' <8+ ' FF ' 8X# F+#' 8--8 ' ! ; #+ ' J + '
18+# +#' UF--# ' ! J+wSF8' 2 # #-' -8SF# ' <+w< + +# ' 8 ' 2#SF ' 1#8+#' <+ E# 2#' EU8J0'
8 ' ^ F E8' J 22#G# F+' ' #-#' 18- #-' 18+# #-I8' E#8 F- ' #-- ' # ' H J' - 8+# '
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4 ˢ 2'2!1" ' " 2'=1Aˢ] 45 '224 ˢ 75?4ˢ ;=58 (ˢ A674ˢ (;ˢ 49ˢ ' 4 5(;2'=ˢ 4 ˢ 55(2!ˢ 2 !ˢ 45?(571ˢ 27(5<4 45841 ˢ
'5?2= Aˢ <'2'51 ˢ ?'4ˢ Zˢ # (2!ˢ 75'' ˢ 49@24 '8ˢ 84 ('8ˢ 85Aˢ (55'8ˢ M ˢ '5ˢ 8= = '8ˢ 85Aˢ ' Aˢ =5(8 4 '=ˢ ˢ ˢ ˢ
' (ˢ <75; 71 ˢ 27('5<4 Aˢ 84@52 71ˢ 4884 ˢ 4) Kˢ 8; '@8'884ˢ . 4 72(1ˢ (:ˢ 5 42= ˢ 84;75?71ˢ 6''(1ˢ = ?'5(' ˢ
' (1ˢ 87(1 ˢ 67Aˢ 78674ˢ 2'=?'4ˢ 1 (54 ˢ (@5?ˢ 87;;488= 48ˢ !ˢ 45?(5'!Qˢ 0A;ˢ . X 72(ˢ 141= ('' ˢ 4 '(1ˢ '5ˢ 55(2!ˢ
2 !ˢ (?ˢ (55!ˢ Z !) :' ''1ˢ 4G78ˢ 4<4 =5 ˢ 55(2! 2 !ˢ (?ˢ (55!ˢ -Z ˢ v#vˢ ;= 5!ˢ -ZZˢ A (1ˢ '8 (5" 1= 4ˢ 8=2' =ˢ
(5 ';'@(5 48ˢ (55=ˢ 55=!) %4 4 41ˢ 45?(5" ' (1ˢ !ˢ 141= (ˢ 884 '58ˢ '1= ?!ˢ @!ˢ - , ˢ - ˢ] ˢ M ˢ M--&ˢ
55(2!ˢ 2 !ˢ =:''884ˢ ('75' ˢ (55=ˢ -ZZˢ 42ˢ - ˢ 4 ˢ '5ˢ 7 =684ˢ Zˢ #2!ˢ 75''G5;'?' ˢ '5ˢ =1'5';(1!
BZ Cˢ 4?78ˢ <'2'78ˢ ˢ # ˢ Kˢ 4ˢ . 4 ':78ˢ =55(;'Aˢ : '8 '(5'8 ˢ @(" 87;;488' ˢ % " ˢ 67"
141= (7 ˢ '5ˢ %' (ˢ =271 :Aˢ ˢ '5ˢ '(?4 ˢ @! M ˢ ;!ˢ ˢ 55?4ˢ @(4 ˢ '' " 4 '(1ˢ 49ˢ 55(2!ˢ %ˢ (!ˢ 4 ˢ 2 !ˢ
'5 4 <5'884ˢ '5ˢ @ A2'=ˢ 524? 4 54 ˢ (ˢ @(4ˢ =271 :A!) %ˢ (!ˢ 4G78ˢ =:' 71ˢ 4<4 7'' ˢ (?ˢ (55!ˢ -Z !ˢ %'?4ˢ 87@ (ˢ
@(!ˢ ˢ 5!ˢ - , - ˢ 4 ˢ '5< (ˢ 5= ˢ ˢ @!ˢ - !
BZ Cˢ (42;= 371ˢ =1 ' 75 ˢ %ˢ (!ˢ 67" (?ˢ (55!ˢ -MZˢ '565'75 ˢ ((ˢ <'2'78ˢ 4?' ˢ <'2'" =;3=?'" ' 1 ;(1 (ˢ . 49
wˢ =55(;'Aˢ =:'') (674ˢ (42;= 378ˢ @(7;'8ˢ (5 71ˢ ?'4:78ˢ 42ˢ " 4 ˢ (1'8 ˢ 4 5(' !ˢ 4ˢ =55(;'Aˢ . 4 ':78
'?4ˢ 87@ (ˢ @(!ˢ ˢ 5= !ˢ - , - ˢ 4 ˢ '5< (ˢ @(!ˢ - !

. B " ' !

*

._L 9 'U' e ' I;2D) ## <# ,UJY 8< #4
'@'bU;bU;3!
8 ! !' ' ! ' ' ' ' !' !' '
' !' !' '_' ' , ' ' 8 k
' !' ' ! !
D)# <<8' 8' < #JHD)# ' $ ' _ F 2#D) '
' ') !' X I ## ' ' ' qm<8D)<0
F<' ? ' # " ' ' " !

.C ' 9 'U:!' D)JH |< ' ' 9< ' " '
' 8' \ D : #22 8' U 2F#<JS2+#)#U'
!' 428 ' ' 8' _2 #<8D) JH " ' !'
8 ' D)82p H ' K ' !' ' ,) Y

.C ' 9 'W!' D)E# 1;#D) #D)## ' ' ? ' " '
? 28 ' D) ' 8' 8' D)#0
28 8' ' ' D) ' D) ' 8' g)#<#22 I ' 2 '
!' _2 KH' ' F H' 8' F# 8' ` ' 2

.CA' 9 ' !' D)JH ' ? ' " '
6/28 D) ' 8' .D) H<D) ' ,4Y' '
8' 9# 28 8 ' _' #<8' <#<

.C ' 9 ' !' ' ' <F# 8' 8' U;2D)828
2# H <F#J 8D) JHV ' ' 8
' FD)JH m ' <<D)# #' E # ' ' !
K # ' ' ! i' ' !' '
' " ' F' !
9 'U' ' ' !' !' !' 5 _ '
' w' ' D) HD) ' 28' ' D)<<#D) ' ' 8'
D)' J ' ' J<8# H8 ' _' ' 8 ' 88 # D)#2J8'
' 8 <88 ' 9' < F ' H8 ' _' <' ' D)<< ' H8

9 'W' : F#8-' 2#' <#-J <#' 8< #-'
/ # JH#
8 8E#J F-' # 8' F-' -8E# '
#-' ' ' 8 - ' ' ' 8 ' -T<F2 F-'
8- ' # ' -#2#J ' ' $8 +#' < 2# ' , _ . Y
+ +8F-' 1#2#F-' +# H #' 8X' 0'
#-8' + FF-' 8- ' 8G #' ' X I ## ' JF#'
- JJ8--# ' / 8+GF-@ ! J E #2 ' SF#' +8G I # '
' I ##
J !' 4 !' $+ 82#F ' &+ 8' 8' +8 ' c #
2G ' 1#2#F-' & 2E#' 1#2##' F+J8+ JH#'
J8J#E# @ 8EHF-' 1#2#F-' #+8#' I #J +' 8+ '
8 E 82 E' 8X' $#J +F ' +# F+
9 ' !' $+ 82#F ' 8 -8' # ' SF ' I #J +'
8+ ' 8E F-' 1#2#F-' " F+ #' 8X' 2 #a '
/ 8+G ' 1#2#F-' 28 #' ,1#2##' E c' 1#2##'
+# # Y' 8X' 2#E#a' # @ EHF-' #G8+'
1#2#F-' ! F 8#' 8X' 2#E# 8' +8G
9 ' !' $+ 82#F ' 8 -8' # ' SF ' I #J +'
8+ ' 8E ' J' " F+ ' 8X' 2 #a '
+-' / 8+G a' 1#2##' 28 # ' ,UFX ' 2# -Y'
SF8' HZJ' I8+ ' 8- ' 8 F 8+ #
9 ' !' +-' +FE##' 1#2##' #2J #-' 8G#-'
$#J +F @ 0 +-' / 8+ E G#' 1#2##' &F JH#'
8G#-' -- +#a ' UFGF2 #' ' -F#-
$\2 G#F-' # 8' F-' -8E# ' ' X '
8 - ' I # ' E#8 ' X ' , _KY
F+#J#F-' +8G ' ' XXc ' 8X' " H0'
' +# F-' 1F# ' H J' 8 < +8 ' 8 ' J < F-'
8- ' ' +# #-' 1#2#F-' 8UF- ' F ' ' 1#E8' < -0'
' 1 J8+8 ' , __Y' 8 ' #--F-' 8- ' 2#G F-

B C' K' . ' @"' 54@= p8' . ' (' 4; ' 4 ('=' 65'4 ' !Q' ' : !
B<C' ;89'5 ' 3 4; ' ?4' . 4 4' '; = !' '5' : =5!' ; = !
BJC' . 4@4 ' '=' 1 (57458'8!' ' aaaaaaaaa

BZ-C' 454?'; 78' !' (@(' 49' ' (: ' (55=' -Z ' (?' (55!' -Z ' (55'8' ' 1 !' !' ?!' !
BZ C' 42('78' ,' 49' ' ;4248'(1' (55'8' 9' ' 1458!' , ' ?'4 : !' ' (: (55=54 1 @4' Z! (?-M !' (5?'5' ' (5 '5'
2('5(' 4 (!' I ' ?4' 4 !' 248' ?(48 ' ! !' W
BZZC' 0 n ; ' 48 ' 0 '8 = '(' 0 4 1454 '2?' ' 6"(5' 45(('] 4 = '=78' (5(8' '5' '(2= = 7'5 ' ! ' 4 ' !

[illegible]

[illegible]

.K " ' !

!

' ' + ' ! ! ' # ' '

' ' @ !

< - '8UF-' <<XE-F ' + - 2--F-'8- '8#G+ EF '
+JH#8<#-J <#' JJ8< ' ' ! 8E8' < - 2#J '
2# G8 ' ,C Y'< 22# ' 8 + < 2# ' ' 8--8'
E8J8+ F '4'4'4'4'4' ,SF 8E 'E8-F Y

.CB m F D) ' '?' ' G'
'?) 8# 2## ##h' F8' # 81# 9)# H' ? ' @'
e ' ?m<8Y F D)' h< #I F) 028E#0 2D) <
? ' " ' #' #220# #02Y#D) #' I_ D) 82J J2#' mB'
'? @? 28#H' ` !' @ I_2 J D) 8 8' ,
% # 00000 ' ' E ' !' 8U#D)JD) ' !

/ 8+GF-#F-' ! J E 2' 8X' # 8'
+ FF-' 8- ' JF#' -FJJ8--# ' / 82# ' 1#2#F-'
#G8) ' SF#' 8X @ : F#8-' / 8+GF-W'
) G # ' SF#' 1## E I# ' J0'
J28-# ' E8' / G8 = ' ` ' 8X'
J#-8' SF#8I# ' E ' 8#' -FJJ8--# '
8X' J# 18' ,C Y' JH 8 8' -'
#+E G2 --8 -#-' #-T-' 1#2# +F ' + #'
-8JF EF ' 2# -

.C.' 9 '" !' e ' + J') 2 #@)A2 D#KH 2F0'
#~7U'R'bU;5='L!) UR24P3' 1 4' U 7: :54'] '
)298 #F# H8' !' @ U Fph ' 2 E#I D)' ?!'
' !' !' 4

9 '" ' : F#8-' # 8 ' # F-' J' #--##'
#-' 2F -80 J0 #-@ 8E F-' 1#2#F-'
! F 8#' 8X' 8 F#G8' + FF-' 8- @'
F EH F-' -' + 8 -#-' SF#8I# '
-8JF EF ' 2# -

.CK' J !' " !' YD)8h D) ' 8' ?1Y 8 HD) ' J'
##FD) JH' 8' 9)# ' F2 D) ' ` !' 8 <EJH'
2' f@ F # 8' 8' , 1Y' 2 D) ' #

9 '" !' 8E F-' 1#2#F-' # 8E##' 1#2##'
&F JH# ' 1#2##' 22#' " F2 ##' ,1#2##' # 22#'
G #Y' 8X' 8 +# 8' JJ#-F-' 8- 0@

B C' K' ' ' ' ' ' ' 6 # ' ' 6 ' ' #$ 6' # ' B' <(=5!' ;= !' !'
7:2'5!' aaaaaaaaaaaaa!

B C' ='2'5 4('<= 4'24 45?71' ' (22'71'45'1'4 ('<(8;'(' ' ;(5?'?(' '5' 1=?71' ;' ;7'" ;=5 49 ('
67(4' 87@4 '3714 =8' '1@=54:(5 '49' 67=' ;' ;72=' (2'(' 8'1'2'8' <(8;'(' (5 4' @4; 78 '4 ' (2'(8'1'2'8' ?;= 871'49' =@@=8' ='
@;5?4:(' 4 '?71' 87@4 '3714 =8' N 67(4' <(8;'84' @7 @5 4'8' 5;':78' '58' 5' (' 4 (5 !' @871' @(22'71' ' (7 4'8'
8@'572'8' (22' (:(7 !) ' '78674' 3=?'4' 49' 2(5(' 5= 71' ;(5?'?= 71' 8'54' 1 (;72(' 67'' '5' <48 =' ! 54 '8' '5'
4G78' ;;248'('%'(' =145 (5(' 8'5 72'8' (55'8' (?' 1'88(1' 8=241541' =<<4 " 8=24 ' 4 ' :454?';'' 4 ' ?4'5?4' 87:?'(&'
;=5'8' @=8 =2';'8' ;=58' 5(' ' 4 ' '5' (2'67=' =5(8 4 '=' 57 ' ' ' ?=544' =5?45?" 41@58' 45'(' 49' 67= 71' 2(5('
4975 7 '@(22'(' 671' '5' (8R'';((%(';(5(1' ?42(((' 87@4 ';= @= (' !' }! 4 "4' (72" @=575 7 ' '5' ' '2'('
5(' ' ('8' 4= 5 (!' (22'H' 7878' @(88'1' 141= (7 ' '5' @'8 =2'8' !] 4 = '' ' !, ' @!' - ' ! ' @!' ' (' 4?('4 '
(2''8' 4 '(1' (5 '67'='<':78!' 5' 0':4 5'(' ' 57 71' <7'884' (5 4' 8 4;7271' 9" 48 (7 ' !' 41 (?78' '5' ' (' ! (2(;3'84'
''5('8' ?1(;3(5' '67" @ '178' 0':4 5= 51' (22'71' 488' !
B C' 4' (42;= 3" @ 1?4;488= ':78' .4 ':58' =55(;'84' : '8 '(5'8' '?4' 87@ (' @(!' 2 !' =!' , *- '
=?378' =;3=?'=' ' 14(5(8' 849 =' .4 " 3 '8 '(5=' 8'';;488'' @(!' - ' 5= !' Z, ' 57?4' ;=58 (' =?315' <'2'51'
' # ' <7'884' % ' ((1' <'2'51' 4?3" '8 '78' " ' 4 ' (X2;= :51' ' (674' 49' 3=;'
' 4 5(;3" 2=;=' ;=58 (' (42;= 3=' 87;;488'884' (2'71' 4?:71 ' ?4' 65=' '5< ('U ' " ' (' !' = :1(;" 4?' (' ('
=2 (5=' ; (' @!' Z-, ' ;!' Z' 141= (5 7 '?7=' <'2'" - ' ' .4 '8' =''5(;' 4' 541@4' ! ' $ '4' ! S'
=?3''1' =21(;'^' .4 41' 42' '5;'@41' 141= ('5278' 7@ (' @(!' M ' 5= !' Z!' 59 (' % ('8 =8' .4 48'
3 '8 '(5H' =55(;'^' 3=;' = ?'54' 846775 7) ! ! - 'H@U' @ y~' ` ' 0 ' (2'(8' ' - '
6) !' - #') -!' ! ' yk' ' # @8|' ! ' ' D ' 8 @ (' @!)&'
; (78' 6 ' ' ! ' ' @ ' ((" =:' 71' 4<4 ''5' (?' (75!' -MZ!

" ' !

!]!

F 8' '2# <8 '# #J' 2D) # #'#+#J 8< D)#22'
! ' ' '#J' 28# ' D) ' JH ' G'
' 2#Z# #7# " !@_28 H' J' 0
' ' ' ' ' ' +C9

9 ' !' D)JH 8#)2 #-H' JH#' ' á !'
2# 9) ' 8JJ' J' UB W+ ; (' ' ! '
' *' , ' ' K !' D ' 2F ' #22# '
28 ' J' 2# #<8D ; JH' " ' !' @'
' f@ 2) 8 ### H' h<#D) ' D)<' < < h2F
' JD)JH J8 ' 2DD8JH@ <# ' <8S<#8J#)# H'
<8' < <#**# ' #9)22' w' 8 D)
H' 8' D)#<#22' , !

9 ' !' ' e ' #)#<#22 ' <<' 2< E0'
D)JH~ !V e ' 48#D)# H' <<' 2FD) D)' H'
<E< @' / " ' / ' ') !'
w' ' # !
.F ' A28 HD)' F# H' J' F# H#9)' A2<D)# H8'
)' # 9)< H' h#DD< D)#' ' 8< F#22 040'
) ' D#mD)JH{ 8

9' !' e ' <<' A28 HD)' J' <#J' _

F # 8F-' 1#2#F-' 2 #' 1c2##' F # 8#'
1#22#' 2# +8 #' <R2'' 2 E #' <'22'' 8+ H #2##'
JJ#E8+ ' 8F ' #' 8 ' <FE' ! 2 ' SF#'
=58'2'=' 2 #' < +I#' 8EHF-' 1#2#F-'
#+8#' # 8' 8G F ' # 8+ #a
9 ' !' $+ 82#F ' ; #a' & H# -)' # ' SF ' .C_
J8J#E#' " 2 ' < +IF-' 1#2#F-' &# + # ##'
,F ' 2##' E#JF Y' J 8-#-' I' #22# F-' <8+' $+ 0'
< 8 # ' 2F -80 #22 ' ,CAY' 8EHF-' 1#2#F-'
#+8#' I#J +' 8+ @0F E8' E#J F ' 8- @'
; #J +# ' < + ' F+#' ++ ' J + '
" 2o ' # ' <+ 82#' #22F- +#F ' 8+ F# '
! 8X' 8G8-' 1F8+8' SF#' J 12#X8+F ' JF '
22 ' 8 ' G 0 0'
& G8F-' 1#2#F-' " +#2 ' #
9 ' ###' : F#8-' +#22 #' <#-J <#' , J I#Y'
+E JH <#@ : F#8-' ! 8 G##' <#' 2F 0
+ +E8 -#) 0000 I8+-# ' " - ####' E
& # FU ' ,C Y' 8 ' #X' G
; F2 F-' + 28' EH#' #G+#' 1#22#' ! 8#'
+ E#8 -#-' SF#' JJ#E#' 8G8 ' &# + #0'
#F ' 1#2#F ' " 8 + H8 2##@ & + # # ' ,#' 8 '
F-Y' 1#8 8 ' ,CBY
9 ' !' : F#8-' <#-J <#' 8EH#' 1#2##

b C' 0 A ;' 846775 7 ' '5' 3 =5!' ; = !) K' + % \ ' ' 1 7 #'# ' ' ' ' F O '# -' ' # $'
P' w= (1') # ' =5=0' c' -) 5' R(1' 4 5" ! ' ' ! # ' 4 51' -' B' y' ; !

B ,C' ?' 4w' 5 "@ 8y?'9' ' =2(1 :(!) =?78' 48 '2=6545?R' 72 ('8' 0' :4 5'; (8!
B ' =58 (5 '5'''5' (15=5'1 ' '!' 4!' = 5(:'84' L (5551' < ''884' (<<' 1 ('] '2?(8G' 67" 4(5' 58''2(5'1'
(;=541Q' (@@422(!!) & =5 4 8'=541' 4G78' 4<4 55 ' } 55(248' 2 =5!' (?' (55!' (4 ^' !' - !' 4 45" .4 5"
@4 48=1' (:''884' 0' :4 1' (1 ' ':'654' %' (1' =5(8 R4(1' 4 '884' 8; ':' ' =4 :'78' 0'8 !' ;= !' !M!' 71' 7'
' 45 41' (<<(7 '] '2?(8' '5' ': ='?4' 9;'?'='8; '@ =' (55=' - !' A' y'G(1 ''565' '67(8" @ 1845 41' (7='6541'
A' ' % # ' 5=5' 548;'=!Q) (2 =54 (' %45=?= R<<" .4 41' ;=5 42 @= (5451' :(:7' ' 6741' @=8 4(' .4 41'
' =551 ' '!' 4!' (1 : 458'51' <(; 57' ' (3178' 2= '24 78' (<<' 1(' (21=' - ' 5=5' (7 41' = '78' (1 : R^ ' 5(1'
4=?41' 41@= 4' %= '@= '71' # ' '# '] '2?(8' 49(' (!
(:' =5R" 4 = 45" 87@ (' 5= ('178' @(!' - ' 5!' ' 7:" '567' ' =58 (5 '571 ' =? 4?" <'2'= 71' (2 4 51'
E '5 =5' ^ ' '5' ; ; 2y8' (' !' 1@:':(2' ' (' 4 71' =5?'5" (:8;=5?' 71 ' (5 4' (2 (5(' 7;'?(884 ' 4 ' :1;' 6'''?41'
5(('] (2<;'?58' =5415 2'458'8' 4 ' 471" 84; 7 (8' (3178' 2= '24 78!' ' 7@3':(2" ; 248'(1' 5722':R'
141= ('] '2?(8 ' 84?' 8(5(" ;7G78?41' (1@:':(251 ' 8' 4' 49 4 '78' 48 '145 71 ' 87:' 67=' ; 1?48' '22(' ;=5' ('88('
<74 ' !' w '1= ?!' @!' - M!
B C' (34(=1478' ::(8'*o ?(2(88458'8 ' 2 " ' !' (?' (55!' - !

! !

28hH # 8 F# I?2# H 8 HJ D)h1 0
2# #1#J 1JD) I# #EJ 2F# JH#22# G
? _ # GG
#22# #F# 8@ q<9)J2# # 8 2YD)8 D) # m2#
2!B C

. Y 9 ?< 2## #hH 8 # 8< D)# I
n_F# HD) ,IIY JH 28#JH1## H 2 H
?#28# 8 D) I# 4
D)E# 1 # F# H8 H JHJ #< <# < F 8
JH 0< < F# H D2Y8#22 #< J82 J <
2F #<8 < J

.L 9 " !) + ! #G @
, @ :28 # 8 ?n<7 <+ # H
! ?! R

+#J# 8 8E # 1#22# +8 E # 8G#-
81#c 8 SF F2# &8 + G# # 8
: F8+J8 # <# 2F 80J#228 ,C.Y
E8 8- - ++#E 8 -#JJ J #G#
& I#E #2 F# 8 -#- , ## Y ,? Y /2 JH
1#2# - 8E # 8X 2#Eo8
9 /82# 1#2#F- #G8+ G# 8X 0
- ## @ $+42#F 8 U +#G#-8 G8- F
8E 1#2# " F+ # ,C_Y
$+ 2#F <# J + G8- F + 0
EF # 1#2# J # J + # 22 - #
< -JF#- F2 + 2F 0 +01
9 " ! &818J # ! 2#- # 8 J2#<-#- ! 2#-
8 8 8 + -F EHF- 1#2#F- / G +0
G# 8X J# 8 ,E8J# F! H+#- # F-Y
SF#8I# ,??Y

BUC 4855 844 ?4 '(;3= '5 3 =5! ;= !
B =3! ;= '3(:4 '3'4 K (' '(8 '1? B
B <C O(G;'24 '1 7 ''5 2' =5 ;= ! ! 7:2'5 '(? (55! - '8';G K #2! '! 4<4; '= =2'8! (54 454: =8=1 !
K :' 78 '' ?(;3 '81=' !) #2! # ! = 8 45 68(' 14 1(2 (?:(! (?2'(' '5; 4?3(' . =55(;3 4;;
K (?:723!] 4 = '78 5('=54 .='5(578 Q t*;!

B -C ('4 '(1 %' (! (? (5'2! - -!) =5 875 ==''<''5?45?(?7= =5(8 4 '(' (' =271:(' <=5?((' 4 4584
575; '4 4 &1('4584 575; ## '?4 67= ?(15(1'8 ! ;! '4 H! , ;! , 4 ! ;! M!
K %' :4(78 '5 14?' 4 (54(' O':4 5''4 @(4 B 4<<'(C =5(8 4 '71 67=? ;= ';4 ?';' 7 #@ - B'!4!
K .=:=4 (1@71C '5= <75?('57 7 Q ! ;!) 41 4?(' K 4;4 (@ '7867(1 '(55'(5 45' '
=''(8 4 '''1 5=:'24 67=? (;=@'(' .=:= 71 #@ -7 2'5 5(;= = 51 3=; 48 (1@78 .=:= 71
K ;=85=1'5(7 !Q 4?! O'8 ! ! ;! ! (?41 3(:4 '157 3=2'8'8 '5 %' (' @ 1?'; (' 45?(5'!) 4 =?';4
(5842'= 71 4 78 '88'1= 84 (= (@7? 4 1('('5 %'?4 . ! ':4 5! ! ! 5?';':78 =;4 =?';48!
@ '8' 4 4 458'8 ;;248'(<''5?((' 48 (: 4=?41 ! =251:((55= 1 ('8 , : '8 - ! 5
57(2':58 (@@4?(7 # @ - '! 4! .=:= ; 71 (2 (;3 8' 4] (2 (;3'!)! V' = $ <'1?(884
! =271:(1 8; ':' =;42'5! '5 %' ((! 4! ,M @'= 75(' @ 4;'@7(' <74 4 4(1(?'(555 4 O''4584 K 49 67=
7 =674 @4 @27 '1(' 49'5?4 =5(8 4 '(' @4 '84'@' =8 4G78 4 '5 (55'(' 4 '5 O':4 5'(' @ =@(((' <''884 Q
48 ('' 4?(! ;! ! = 78 4 458'8 5(' (5 ': '8 49 O'=5(' O':; 5'(1 4 ';4 4 8(' 1(9'14 =@G = &
7''78 48
B C ! ('?'8 454 458'8 =:'271 4<4' 884 ! (? (55!- ! =?41 (55= 67= =:''] 4 = '78 (578 '!4!
(55= =:''884 8; ':' ('(5 5 4 @=2(= '5 ! .=?24'(7=! =541 3458'8 '? 4<4 (? (55! -
4 5(5 4 (2 =54! '(5! O'8 ! ! ;! -! 15'71 67 4G78 =:' 71 141= (5 (5 '67'88'178 4!8 4 5(;3
67 ('?'8 =:' ''1 4<4 (? (55! - MO A / 6@+ O':4 5';4 (?'5'; :=?'4 ;;248'(454 4''8'8 (@@422(1 I!Q
] ' (2?58 '5 %! (' ('?'8 ;! !) =?41 (55= - M %45'' ?4 O':4 5'(' '5 7 75?'(1 2 1:(578!
B ZC 4' 3 ' '4584 8' 4 26 * @ 1#7 (' 141= (7 (: ?(15(5= '5 67= ^?(5= '5<42'9 %'; = '(' ;=5 ' '
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B C %'?4 6''84 ?4 .4 51 =55(;'(4 87;;488= ':78 ?'; (' 875 87@ (' @(! - 5= ! 5=?4 @(4 6
=?2' B'2'71 <7'884 =; 7=(1 : '8 '(5(1 G79 (' % ('8 '=8 w=' G79 (' 4 5'';3I!1 '67 + '5;27?' !

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8n H8ʻ 8ʻm ʻ` !ʻ #D I4D)ʻ

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JD)JHJ@#EI ʻ" ʻ ʻ 2ʻ)8JJʻ DDh@A(~`T ʻ

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9 ʻ !ʻ $ /ʻ GF-##ʻ 1c2##ʻ 2G E##ʻ

"+8G +#F-ʻ # ʻ F-ʻ 8Xʻ < +8ʻ

" +E# ʻ -8E#ʻ #-ʻXI#ʻ 8 -ʻI#ʻ EʻXʻ

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-#2#J ʻ !Zʻ 8 +#ʻ < - 2#ʻ 8ʻ !8J+8 0ʻ

+#F

9 ʻ #ʻ /+ 82# ʻ FEFc E#ʻ G #ʻ #ʻ .LB

SF ʻ J8J#E#ʻ ' +#Gʻ ##2#F-ʻ #ʻ 8Xʻ

JH#w 4x/# JH ʻ 1#2#F-ʻ 8E #ʻ

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ʻ 2#ʻ 8 < +8ʻ +8G #ʻ /# JH #ʻ 1#22#ʻ

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9 ʻ !ʻ :F#8-ʻ 2F w) #228ʻ#ʻ J 8ʻ MB-

& # #Jwʻ $8 8J - 8-ʻIʻ EF-ʻ) ##ʻ ʻ

<8+8G+#+# # #-ʻ-F4ʻXXXI ʻw #-ʻI8+ ʻ XXI##ʻ

+#G# ʻ #-ʻ 1F#ʻ -# 8ʻ J + I8+-# @ʻ

2 ʻ#ʻ-F ʻ2FGF +#ʻ JJ28-# @ + -#I#ʻR

Eʻ G82 -ʻ8ʻJ +< +8ʻ-F @)<-ʻ Qʻ -ʻ

8ʻ_ 6?M4 # F-ʻ G #ʻ 1#2##ʻ " F+ F#@ʻ

8E -ʻ / ʻ ,#ʻ8ʻ J8+Yʻ 1#2#F-ʻ 2 #ʻ

8Xʻ G8 #c8ʻSF#8I#ʻ + EF #F-ʻ 1#2#F-ʻ

J ʻ 8Xʻ G8 #4ʻ,+8G #Y

BJCʻ Kʻ(55'8ʻ9'''Qʻ 3 =5!ʻ ;=') 4875ʻ65A?(1ʻ@=8 4(ʻ':!

B Iʻ Kʻ 99 ''Qʻ 3 =5!ʻ ;='!) Kʻ ';3(ʻ :2!ʻ:(=ʻ (5ʻ248) =271ʻJ#228ʻ5(ʻ?588I 4 248) 7'?ʻ =ʻ3ʻ 5 2(':ʻ (8ʻ

(ʻ;(;3ʻ2(ʻ 'ʻ 1:2'(?35(ʻ ʻ('!Q ':!ʻ %'?4ʻ'5< (ʻ5= !ʻ Zʻ @(!ʻ !

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7'ʻ'(654ʻ ?4;'178ʻG79 (ʻ ' 4 5(;'1 (ʻ =?:78ʻ<'2'58ʻ = (('ʻ7ʻ87@ ( ) 4ʻ =2'8ʻ ?42'67'=ʻ (55ʻ -M ʻ

%'?4ʻ.4 !ʻO':!ʻ ! ʻ@(!ʻ9;'''!ʻ 4ʻ(2 4 =ʻ(55ʻ846''45 '8ʻ 141= (=ʻ'5ʻ 55(2!ʻ ' !ʻ '?4ʻ':'?!

B M ʻ 7 '?78ʻ67ʻ4 ʻ ='5(ʻ =1 (22ʻ 45;3= 458'8ʻ '8;'@7278ʻ 5=:'ʻ 25('5<4 458'8ʻ '5ʻ @:(2'(ʻ ;=5?'=ʻ

<7' !ʻ 4 '@8'ʻ.4 72(1ʻ =5(8';(1ʻ (ʻ] 4 ='=ʻ (5=ʻ(@@=:((1ʻ7ʻ'5ʻ%' (ʻ4G78ʻ(@5?ʻ 884 !ʻ@!M, !ʻ 'ʻ

4(?41ʻ '(ʻ3A;ʻ24 55 5) K 5ʻ '@8=ʻ2=;=ʻB =5(8 = 'ʻ =27ACʻ ;2((ʻ ' '(8ʻ67Aʻ =;(<7ʻ @1 # @+ ʻ

Kʻ'?ʻ48ʻ (':725'5ʻ '(:'24ʻ !ʻ =27Aʻ B4=ʻ67=?ʻ'@84ʻ'5ʻ87(ʻ '(ʻ1 2(ʻ '' (;52(ʻ'5ʻ4(ʻ<4;' ʻ4ʻ(?354ʻ ('5ʻ 4ʻ

Kʻ@4ʻ471ʻ@((5 7 Cʻ'5ʻ3=5= 4ʻ !ʻ =27Aʻ; 4 ' ʻ 4ʻ'@8(ʻ48ʻ (ʻ;==<'5'=ʻ ((458'51ʻ4ʻ 51=5'458'51ʻ '5 4ʻ

.4 '=548ʻ - ʻ4ʻ< ʻ4ʻ - B

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J !' " !' J)E# 1 D)J2# ' D)' ' h<#9)hH' _' JD)E# *2#1#d18 d # V ; # ' !' ' _' _28 D) ' ' Y1FD ' _' N D) # D)<J' _' } J2# O<#22H _' A2# JFI ' ' JD)JH H#<JH# ' #')' " F A' 6/28 | E## ' _' ,)+H <D)# |

.L_' 9' "i ! ' F# F<J # H' o-' _28|HD)' 2 ' < #|F ' 8' JH' ' F F#J8h' ' ' A' . | # ' # ' J h ' ' J F F<J # H' #< #2' J#228' < | #U# J x4

' 8!' . 'M' ' !

U2 < ' h#- #2' F F+J # @ _28h ' 8' ?22 #<8 J

JH' 28# 8' ' U;2F ' #')' qm<# JH ' 8' 8h # ' 8' ? 2# <8 JH' " ' ' <' # <F#hH8' 8' 2- #hH

9 ' A!' e ! ' 8 ' _2 ' 8' ' & " ' Z ' ! @ JH' hF# ' 288' 2 ' U hF ' 8' J JH' J ' 2 ' H#' ' ! !' , ' !' 6A28h' ' _2 #<8JH' ` ' <' ' !' X#X

9 ' " !' $+ 82#F ' F # 8H #' &+F#E +F)' 8 ' <+ 82#F ' #-' ! 8 #@ FGF2 # ' 1#2# +F ' 8E #' #' 8 ' +# #' 8 ' & O' G + #?' 8 ' JH E##' 2 #' 8 ' + F+#' # ' <+ 82# ' 9 #+JH# 8 ' # ' SF ' I#J F-' 8- ' 8E ' 8 ' $+ 82#F ' + U## 8

9 ' " !' +-' F F-J G#' 1#2##' 8EH# ' JJ#-#' ' + E # ' 1#2# ' JH# ' <FE' F # 8 F ') , ' F E8' E#J F ' 8- @' 4

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! # SF8' I# E#J ' <+ ' + 8' F F-J G#' ; F2 F-' 8 H 28' 8EH#' 1#2##' #+8# ' $+ 82#F ' ! 28 8 -T' # ' # ' # ' SF ' / # JH ' 1#2#F-' 8E #' 1#2##' #+8#' I#J +' 8+ ' +-' # + E##' 1#2##' 2G E##

9 ' !' : F#8-' 8 # #' #-' 8 ' ' K ' 8 #-' -F 8' ,L Y

$+ 82#F ' +T#-' 82G +F ' G8- F ' ' + EF # ' 1#2# ' JH#' JF ' G8 #8 -# F- ' #I ' E ' ' F #' J8J#E# ' 8EF-' 1#2#F-' F0

BM C' ! =271:(@'87;;<88'' O''458'8' ::(8' ' (2'(8' =1 578' <'2'78' 45?'5'' <'2'' 4 78 ' ' =2=1:'4' (55=' -MZ' =271:(1' ;5'1' 5872(571' 1'2' 41' <7'884' (55'8 !' ?(15(558' (<<' 1d ' ! ' =!' ' 67' 8' 5514&' 45 7 ' (:' (55=' - ' '5;278' 4' 67=' 49' O':4 5'(' O'=5(1' (? 45'<' 4<<';'75' (5571' -MZ' 67=' (' :45478' 4' 87;;488' !' =271:A' ' ' # ' 451' (@@422(' ?(15!' ! ' ;!' , ' ! ' ;!' , , ' ! A'1 # ' % B' = m4 58' !] (22;5828!

?' 3''5;' (' 3454'' 1 ' '5' '@8=' A<4; 7 A' 87A' '5' '=' 45'' 49' O':4 5'(' . ' 67' 8; ' 84?' 87(?45 4' (' 345=' (?' O':4 5'(1' 24?'' ' 4=' < 7; 7=8'78' 84 ' 7 78!' '5 (558' '8' @(4' (2;(5=' 1(4' '?42':'(' 5(78' (55'8' ' ;71' ' ' ?4' 27( ) 5'8' '5' (;7' 54' ;=11= (58' <54 (T' 78674' (?' =271:A' =:' 51' 48 674' '?41' ?4' 67=' ?(15(5' ! ' ;!' , ' Y'67' & K' !' . ' 67' @=8 4(' @4 ' 75' 4 8(8' ;== 71' ;;248'(8' (2?4' K' 5=8;':'2'8' B1' (:'2'8C' 3(:' 78' 48 ' (' @74 '2' A (4' '5 4 ' (4' ' ;(5'8' 4 ' (5'1A ' 4=' (?G7 (5 4' 458 =?'458' 8 7?''8' '(2'8' =@3'(8' ?4?' 78' 3=;' @ =@=8' ' 71' '5' (55'8' G5 45 5 '8' ;=5 4 &8(78' '5' ;= ?4' 2'(:7' ' 7 ' 5=8 71' K !' =271:(1' O':4 5'(1' ?48¡ 458' @4 4 '5(7 58' (?' 4'!' OA;' 5''3' 5((5 4' 6''=?(1' #42' '=8=' 8454' K' X8:L 4 =' 3 '8 ' 1'2' 4' '88'54=' 5='7'54!' 1 (5' 2'=' 45 4' + # ' '5?7:' (5 4 ' ?'?';'' 65' 4(?41' K' =15'(' 87@ (' 141= ((' 4 :(' 4G78?41' (:' = 4' ' '5 (5' 3' (2;=5' (7?'884' 48 (78' 48 ' '@8'78' =5(;358!I' 5' 37G''8' '5 (5' 8' 4' + ' %' (' 84 (5 ' 5= '<'(' L57?' ;';3''5458'8!' '1=<?!' @!' M !' :'' ' (' 34558!' ' ::(8' O''458'8' (55=' '5 4 =' @=8 ' =:' 71' !' ='51:A' 4=?41674' ?'4' '9' 75'' ' 67' '5;'?' ' '5' <4 '(1' ,!!' 7;;488' 654' <'2' ' ::(8' 4 5(78' (55'8' , - ' 586''4' (?' (1'!' , ' 5 ' '5' ?(15!' ! ' ;!' , ' 4 ' '5' 55(2! 2 !

" ' !

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' & ' _ ' 88' 2##J' 1 +D в -' m2#' _' D) 8' #)#X28' 828 @ J#8'

J
?2 FD2JH

0)8<F ' ' + #' 1q' U 92JH'
?U2 0<8 ' E8# #' J 81' m'me' I I #JH'
? 28 H' 8' _2# #I 1 88H' D K' 8H
' 1' ' y8
E8 ' D2 #' 8 #1#EJ ' +D28 ' 2#2g8 '
D28 ' _28KD2' 8' ? 2 ## #<8D2JH' R'
D2JD21#' F2# #' E' S #' JD2 @'
?)1 # ++D2' 0<<81J# ' D2#E#8<<D2JH

#+8#@ 8X' # 8+ #a ' ' +8G #' X#X '
W ' X### ' 8 ' 88JF-' 1#22F-' F 8#' 8X'
+G# 22#W ' 8 ' #28-' 2## ' F E8' E#J F ' 8-
SF ' 8 <8- -' SFa' # <822# ' F0'
8 8-' 1 FJ F ' E' F-
- ' # # ' SFW' ++ ' J 2 # 8 '
!J +F
8EH ' ## F ' g8#' JJ#-F
FUF-' UFX' J8J# # 4)
8G# ' 8 +#W ' 8G# ' 2 8 #W@ 8G# '
8E#' 1#2##' #+8#0M
/F8+8' 8+# 8' +8-' #- a' # 8+F#W' &#I#
-# 8-)
$+ < 8+' # <# ' +8+ ' F # 8

2##92 ' m F##8h2#D2' _' _28K' ` 2 8' !'
.D2< D2 #' #8' hD)' $ ' I ; 2F #HD2 #' _' ?A2# #D 0'
b2 ' ' : @U ; : b2'@!

9 ' !' !' ? ' 2FE#92 #F)J #<
N' ' ' (4 '_)' ' i D2I ' &>'
D2 ' H' # ' 7 @)2'D2XD2#92# H' \ '
F#' JF ' J<8 H' , Y
9 ' `' X '] b2'5 4; :' *, 2; 3b2'-3' : ='
b2'5' ' U ' 1 ' ' 8') b2?I'
' 2D2' 2' ? 28h) ' $' ' b25'0@b2'; 3'
+@@' 4; bU2@@b2'; 3' 2b2' B%2b2427' 'b2' 1 4' : b24Pb2' '
' ' " #' # O ; - ' " '7 : 1 4' 1 4'
\\! ' 0 # 2'@' ' Z24 ' *@ '5 4' b21 : @' &

2 F-' #2 8EH ' 8 ' 8EHF-' !2 8 0'
-#-' +8G I8+F ' " + F-' 1#2#F-' E8#'
8X' 1### ' #W ' 8 ' 2G E#F-' 1+ 8+'
8UF-
9 ' !' #22# #+' -' 2F J -#a' .LL
< F- @8' -J+ E# +F ' 1 #2# ' 8+ ' #- @'
+-' " + E##' 8G#-' $#J +F
! X 8-' E' 1#E8 ' J I8+ F F+@
#!' `' : #8-' #JH#' JH 8 -#-' SF#' K
CB' ' #-' -F ' S #8I # ' ,$ Y' $+W2#F '
! X F ' J < + ' 8E F ' F #' J8J#E# '
1+ J' 1+ 8+' 21+ #JH ' JJ#-F-' ' 80'
2F ' 1#2# ' E # ' # ' SF ' I#J +' 8+ ' ,LAY'
FGF2 # ' !F 8#' 1#2##' 2 #' G #

B C' K' ! ', # ' ' " ' 1 ' ' ' $# y@! 1 ' ' # O! ' ' ! # ' # ' $6 O #' '
K' # " $ O .# ' 1# ' ## O ;* $' ' ! $ ' # O $' ! ' ' !p51' 4) 5' '75" 4 5" '
A' ' C' ! ' ' 8' 1 72!Q' (' 3 =5!' ; = !' !' 7 : 2'5!' !
B I' # (?4 5' 3 (: 4 ' : =5!' ; = !' (?' (5!' -M, !
,#Y' M' + !>' : '?!' aaaaaaa aaaaaaaaaaa a

BM C' ! (75'; " 1 4 1 '5p ' ?(1 5(5!' ! ' ; !' ' 4 ' ; !' , ' K' (55=' (8 ('8' 999p ' <42'; 4 1 ' (5'1 (1' (?'?'884' 4= I'
'5' '5; 4 =' ' 4' '@8'7W8; '@ = 4'@ u?' 75" 24 '1 78 ' (@7?' 884 !' @(!' M !
BM, C' 0 w; ' 4(?4 1 ' 3 (: 4 ' : =5 ' (9=(!' (?' (5(!' !

, ' ' !

B?8W0 ' 1FD) +9)' ,IY JH# J2FD) D)' 28JH' JJ#-#' <8+' 8EF ' !2 8 -8 ' # -#E# -8 '
< D)#2#@ 8 8 X)' U#D) #' F# 2#' #YI#8 2#DD EF ' E + #+8
''''575-2'' bU4'!' BUC

!# JH8 ' E8' 2F 028 H0 8 G E' ## '
$8+JF--# ' + E ##' +8G#8 -#-'# ' '
< ' 8#

!' &' ! % % ' ;

$! : % ' E' 2# ' !88JF2F ; ' G8 # ' JJ8E F-' +E ' 8X< -J8+8' I#E8 F+' F' 2 GF ' ! J +F ' # 8+ #-8' !-8JF2#' ; ' ' % ' ! 8JF2 ' I#2' E8-J+#< F ' 8J +# -' -F U#J# F-' F ' 8F ' JF ' #G8 JH ' J 18+8 8-' #E8 ' #<-#' ' #-#' 8X' F ' 1 8' 8' 8X' #- d+#J ' I8+# 8' F # SF8' -J F+#+8' 2 GF ' #- F ' 8E#E#' 8X' EF F-' E#J# F-' 8 + J8#-' --8+#F-' # 8 SF8' /28 # GF-' SF#' E8' #- #-' E#J# F-' # SF# @F F ' <8+ #FF#--8' E' JJ28-# ' +E J ' I82' &F 2# #8 -8 ' 2 8+F ' E' ## - 8+#F ' & ' ' + ' # ' JF' # JH @ X8 U<2 +#' - ' /28 # GF-' H J' J 8 E # 8 ' <+ 8< # @M' ; 8+ ' 8--8' <8+I8 F- #' 8 ' =E82#-' F H +#-' ; # 8' M' ! ' $ +#J## ' , 8 <8' % ; (' & 8' +#<2#J#' ! J +F ' <+# # #I 8' JJ28-#4' # 8+ 8 -#-' M' +E# 8 @ -F ' # F2 ' H J @

& ' / # ' * ' + ' ' , ' , Y' ' " ' ,AY
!

L' $+# F-' +E ' ! J +F ' 8+ ' # ' 8 < +8' $ +#J## ' 8 ' F J' 8+ ' <#-J <#' 8-' J2 +#' 8 ' ! J #' 8 ' !<#+# ' ! ' <#8 #' SF E+# G8 #' SF#FSF G# ' F 8+ ' , Y' JJ28-# +F ' 1F E +8-' F F ' <F ' H+#- F ' J 28 8-' 8 ' F F ' &FJ\ ' $ +#J#F ' -8SF8 8-' F ' -F+ ' H 8 8-' 8 ' F ' J828 + # 8 ' #--W ' 8 ' F F ' $ -JH ' -J#2#J8 ' < - ' 28SF# J #F ' I8+ 28 ' J828 + ' 8 ' SF E' TXJ F #J F ' 8--8 ' ' F ' JJ28-# ' 8-' 8XJ F #J ' F2#8+F ' E # #- + # 8 ' 8 ' J - + # ') ' +8-<F8 ' SF# ' -F<8+' $8 + ' H+#- F ' 1F E #' I8 F ' 8 # F ' ' # 8 0q #J' +E ' ! J +F ' <8+' SF 8+ ' EF+ I#' +8G ^' H J' 8- ' ' 8 < +8' # ' 1#2##' 8#22 ' SF#

B<'C' K' 4'1 1 4'5' (5?7':3' '1' : 4 ( ) = 8' 41 ''5' 1 4' 7' @ 4' 45(<'4' !'!' . '' 7z' ('54' 82='2' 4 ' . (3' 1 (' A' 455('55' (' 7' ' '!Q' 3 =5!' ;= !' !' 7:2'5' (?' (5 !' -M !

B C' 884 !' 3(:4 ' K' O':4 1 'A!Q
B,C' ?4 1' 3(:4 ' K' " # B' 4?' @= '= ' 24; '=' '?4 7 ' '8 (' 24 1 '5 H!) Y 'h5 4 1' ('(5 48' 4; '=548' @(4(5 ' 24 1 '5 '' 4?' '='Y' 87:G55 ' 1 78' 4?' '=54 1' * 884 ''!
B C' #4 1 @4' 67'' @ 1 ?';(:(5' ' '54 (5 48' '5;4'* '8' 84?':58' 4 ' ((5 48' (@@422(:(5 7 ' 7 ' '5' . 4 !' O':!' !?!

! !' &' + ' / !' ;

+8G I#'XXXI##' #-' ,BY' 8' 'J G 8 '' ' SF#' XXX' ,28G8' XXY' #-' +8G0'
F I#' ,.Y' 8' # ' SF#' I##' ,28G8' XXIY' +8G I#' ,' Y' ' H#8' +E' ! J +F ' F-SF8'
E' 8 < + ' 8X +8 ' % 'J G 8 '' G# ' EF+ I#' ,_Y
M' ! 8JF EF-' I8+ ' +E' ! J +F ' 2#-' 8+ ' ' H J' 8 # ' -8JF E ' +E# 8' < FJ#' 8+ '
<#-J <#' 8' F2 #' $+8- 8+#' F 8+ ' +8J8 #' F F ' <F' & #U#F ' J 28 8-' E#I8+- -'
J8 8H+ E#' +# F-' H 8 ' 8' E#I8+- -' 8GF2 -' I#I8 E#' 8' F F ' $ -JH ' X#I' F '
0J828 + ' ' H#' F #1 + 8 ' -F+ ' -J#2#J8 ' ' F+8' F-SF8' E' F+8 ' 1 J#8
F 8+F ' SF SF8' J - + #' J' E # #- + # 8 ' 1FG#8 ' SF8' ' - 8+##-' -F#-'
6 8 -' 8XJ2FE8 ' #J' +E ' <8+' SF 8+ ' EHFJ' +8G ' EF+ I#' ! J#2#J8 ' ' 8X +8 #-'
6 % ' J G 8 ' 82G + H' 8 < +# F-' 8' XXX' -' SF# F-') '
f ' " ' +8G I#' ,?Y' 8' <+ ' 8 < +8' SF ' EF ' 8< 8-' F+8E JH#' SF#' I##' #-'
? +8G I8+F ' 8' <+ ' 8 < +8' SF ' ' ' ' SF#' XXfe' -' +8G I#' ,LY'
#' +# F ' J828 + E#' #-- ' JJ8<8+F ' ' ! J #-' ; #+#-' E8' +# # ' -J#2#J8 ' '
! ' & I#E' ' ! " #2E ' 8,' ' +!) ' ,28G8' & J Y' 8' H +F ' # ' -F ' ' ,H JY@ ! J#2#J8 '
7 ' ' / ' / # 4 ' ' e ' / , ' 8 '
8 ? ' / ' / # ' ; E ' ' # ' 8 ' ,28G8'
8 (' 8' 2##' F2 #' SF#' 8+ ' E8' -8JF E ' G+ EF' ! J +F
M' 8+ #F-' +E ' ! J +F ' 8+ ' 2#-^' 8+ ' 8 # ' $+8- 8+#' - J #' 8' < FJ#' <#-J <#'
6 F 8+ ' J8 F ' SF#' # ' 2 J#-' E8-8+ #-' H # ' ? #' <28+# F-' 8' SF ' 8' 8288 - #-'
6 12E82#F ' I#I8 ' 8' # ' 8++8 ' J 8 8 ' 8' 8 ' -F-F++ # 8 ' 8'
? E8 + J # 8 ' <8 # F-' 8I# ' #' E#I8+- -' 8GF2 -' 8' I +# -' J828 + E#' +# F-'
6 H 8 ' 8' E#I8+- ' 8 # ' -F+ ' 2#SF#' 8 # ' H 8 ' #0 ' 2#SF#'
6 a - +#8 ' 8' H#' E#I8+- ' - 28 # 8 ' $ -JH 28 ' H 8 ' 2##' 8 # ' X#I' F '
2##' X###' J828 + ' #J' +E ' <8+' SF F +' +8G ' EF+ I#' J' 8-' <+ ' 8 < +8'
' ' , Y' SF#' +# F-' #-' F ' +8G I#' <+ ' 8 < +8') ' SF#' XXX'
? #-' +8G I#' 8' <+ ' 8 < +8' ' " ' 8' <+ ' 8 < +8' ' + !' ' H#J' +E

B C' . 4 ('' (= ('78' (:' (57=' , ' (?' ' (:' w:' 7' ' @ (4?4;488s '8' 4G78!) s (" 999' (55=8' (5 5 1' 4'
': 755 ' (55=8' 5 7 5 U (5 ' (:' (57=' ' 'C7=' 3 '8 ' (75 1' 84' ?4; 2((' ' 7 ' '5' 2': =' 2' ;(5 ' 4 ' 85@ (' @(!' !' !' !
B-C' @+ ' (3'84' <'2'78' 4 (('' (55'8' 99 ' (:' ('5=' !
B C' 5 (?'78' 4 5('' (55'8' 99 ' (' @ '42'=' ;3(5=' 48 =' ! !' !
NCa' . 4 7('' 7(3(''78' '8' ' (55'8' 9'' (:' (57=' - ' (?' - ' 67=' @ '5'78' = ?=' 4 5'p5(' !
B C' '((' ''' ' '8' 5=5' 4 5('' (55'8' 999 ' 84?' (5 7 1' 99" (:' =:' (' 7(3= ' ' 5 4 1 @4' (?' (55'' 1' 58654' - -'
67=' 4" 85; " 48845'<' ' ' ' . ' (55=' 75=!' 82'8' 87; ; 4884 4' ' ' ! " ! ' (5 ''8' ?(=: 58')'
?4'5?4' 1 5' 4=8' <'2'78' 4?5(&" (55'8' ': 78 ' (:' (5?=' - ' (?' Z ' 5 1 ' 4=' 8(; ; 488' ' (=?(578' <'2' (8' '554?'"
('5=' 2'5=' (?' (55&' -Z, !
B C' '?''8' '8' <'2'78' 5'5' 4" 4 5('' (:' (55=' -Z, ' (55'8' 99 '' ' (86''4' w?' (''5!' - M' 67=' ' ?!' (5!' -M) '
@ '42'=' =; ; '8(8' =; ; 7 : 5p ' (55=' *U (p8' !
B' C' : = ' 48 ' '5(5'<48 ''8' =?3''8' 45'1' ! ' 8' =' ?' 4'U(2'" . 4 p8' <'2'(8 ' . 49' O': 4 5'(f 4 5(''
(55'8' '9 ' (:' (55=' Z ' (?' (5(!' Z ' p (67w' 5=5' ?4' '?=' ! 6 ' 3'; ' (' (' 84?' @= '78' ?4' ! # ' 67" 4 7(''
'55'8' (:' (55=' - ' (?' -Z !

Mˢ F-SF8ˢ Eˢ + 2# 8 ˢ #22 ˢ G ˢ EF+ I#ˢ^ , Yˢ SF +F ˢ # ˢ -F ˢ H#ˢ ,H 8JYˢ
Mˢ K ˢ <#-J <F-ˢ 4 ˢ <-ˢ / ˢ <-ˢ ˢ <-ˢ ˢ <-ˢ
Mˢ + ˢ <- 040 #ˢ <#-J <#ˢ 8-ˢ 8 ˢ 2##ˢ <2F+8-@ #ˢ I8+ ˢ $+8- 8+#ˢ 7 ˢ
Lˢ $+8- 8+ˢ ˢ 7 ˢ / ˢ / ˢ ˢ / ˢ 8 ˢ
Mˢ 2##ˢ $+8- 8+#ˢ <2F+8-@ ˢ SF Eˢ <+# F-ˢ +E ˢ 8+ ˢ ! J F-ˢ ! J #--# F-ˢ -8JF EF-ˢ
Mˢ ! J # +ˢ 8+ #F-ˢ ! J F-@ $+# F-ˢ -#JF ˢ ! 2ˢ # ˢ 18+I +8ˢ 82 +# #-ˢ J 28-J# ˢ -8JF EF-ˢ
Mˢ -#JF ˢ F ˢ < 228-J# ˢ 8+ #F-ˢ -#JF ˢ F+ + ˢ -<28 E8-J# ˢ , AYˢ -ˢ +8-ˢ +E# 8-ˢ ˢ
Mˢ $ +#J#F-ˢ -F<8+ ˢ +VJF2 ˢ 8E J F-ˢ # 8228X# ˢ JF ˢ # ˢ ; #-# 8ˢ #22 ˢ $+ <H8 #J ˢ I#E#ˢ ˢ
Mˢ # 8 # ˢ 1# ˢ #G #-ˢ +8<28 + ˢ E8# E8ˢ 8-ˢ F ˢ +E8+8 ˢ < - 8 ˢ 2FJ8+ -ˢ +E8+8ˢ
Lˢ # ˢ I 22# F-ˢ J -<8X# Q

ˢ A ˢ 8ˢ 1 + 8ˢ 2#SF#ˢ <F 8 ˢ 8E# # 8 ˢ #- ˢ I #8 !8 ˢ I +# +8ˢ # ˢ 8--8 # 2# F-ˢ ˢ --8+# ˢ H Jˢ -F U#J# F-^ˢ #Eˢ - 2F ˢ 8 8-ˢ 8+ -ˢ -ˢ X I#ˢ - 8<8ˢ ˢ F8 0ˢ -# F-ˢ J 1 E#ˢ JF+ ˢ X###ˢ 2# -SF8ˢ -# #2# 8+ˢ 8 ˢ E#I8+-# 8 ˢ # ˢ F 8+#-ˢ SF# F-ˢ 8GF ˢ #ˢ # 8ˢ # E8ˢ 8++ 88ˢ #ˢ -F ˢ ˢ 12!J8+8ˢ SF ˢ # F-ˢ # ˢ +82#SF#-ˢ ˢ 2 G#ˢ G8 F# #ˢ H 8 F+ˢ SF I#-ˢ < F2 ˢ +8I#F-ˢ -#ˢ --8+# ˢ 8X8 <2 + ˢ F ˢ 8Xˢ -8SF8 8ˢ < 8 #

& ˢ / # ˢ + ˢ f, ˢ ˢ " ˢ !

K ˢ ˢ H 2#J +F ˢ ! J +F ˢ 8+ ˢ # ˢ 8 < +8ˢ $ +#J##ˢ 8 ˢ F Jˢ 8+ ˢ <#-J <#ˢ 8-ˢ J2 +#ˢ 8 ˢ ! J #ˢ 8 ˢ !<#+# Fˢ ! ˢ <#8 #ˢ JJJ#ˢ F 8+ ˢ , Yˢ JJ28-# +F ˢ 1 E +8-ˢ F ˢ J <F ˢ H+#- F ˢ , BYˢ 8 ˢ F F ˢ &FJ8 ˢ $ +#J#F ˢ , .YˢH 8 ˢ ˢ #-- ˢ F ˢ J828 + # 8 ˢ F ˢ -F+ ˢ ˢ F+8ˢ F-SF8ˢ Eˢ F+8 ˢ -F1#8+8 ˢ F ˢ $ -JH ˢ X#Iˢ F ˢ < - ˢ 8SF# J #F ˢ I8+ 28ˢ J828 + ˢ^ 8 ˢ SF Eˢ 8XJ F #J F ˢ 8--8 ˢ ˢ F ˢ JJ28-# ˢ 8-ˢ 8XJ F #J ˢ F2#8+F ˢ E # #- + # 8 ˢ 8 ˢ J - + # ˢ ˢ +8-<F8 ˢ SF# ˢ -F<8+ˢ <8 + ˢ H+#- F ˢ 1F E #ˢ I8 F+ ˢ 8 # #-ˢ ˢ # 8 ˢ #8ˢ +E ˢ - J +F ˢ <8+ˢ SF 8+ ˢ EF+ I#ˢ +8G ˢ H Jˢ 8-ˢ # ˢ 8 ˢ ˢ ' ˢ 8 ˢ # ˢ 1#2##ˢ G +##ˢ 8 ˢ % !ˢ #ˢ 8-ˢ <#-J <#ˢ E8ˢ #-ˢ 8 ˢ $+ J#-ˢ 8 ˢ +# # F-ˢ 8X + #ˢ -F

+ ˢ ˢ H 2#J +F ˢ $+8- 8+ +F ˢ ˢ H Jˢ 8 # ˢ +E# 8ˢ < FJ#ˢ 8+ ˢ <#-J <#ˢ 8 ˢ F2 #ˢ $+8- 8+#ˢ F 8+ ˢ JJJ ˢ 0 F ˢ <F ˢ & ˢ + ˢ H 8 ˢ E#I8+- -ˢ #-- -

B Cˢ 2 '1" .4 48ˢ 65':78ˢ 4 5(5 ':58ˢ 4 '78ˢ = ?=ˢ ?4<4;' ˢ <74 4ˢ 2(31(;58ˢ 4 ˢ '(1 ' '78ˢ 4?" 2(7458'8ˢ .4 '8ˢ O':4 5'(4ˢ <'2''ˢ 67" .4 5=ˢ %=;'(=ˢ 4 ?(4 75ˢ 78674ˢ (?ˢ (5571ˢ ˢ 67=ˢ (1:=ˢ 4ˢ 1= (2ˢ (4ˢ 1(5(ˢ =:'45'5 ˢ 7 ˢ '5ˢ ((2= =ˢ .4 71ˢ '5< (!

B ,Cˢ 241'5 58ˢ 8; ':''Kˢ 4 '71ˢ = ?'541ˢ (5; = 51ˢ O':4 5'84ˢ ?7 (884ˢ 78674ˢ (?ˢ K (5571ˢ iˢ 67=ˢ '5;'?'ˢ Kˢ 1(5(ˢ 17 (2ˢ (8ˢ ?4ˢ 67(ˢ 4?(ˢ ! ˢ;!ˢ ,Z!Qˢ '884 ˢ ?4ˢ =5(;3(7ˢ !ˢ =2513(5''@(! !) 4?ˢ ?'7 '58ˢ ?7 (884ˢ @(4ˢ 49ˢ 5= (ˢ @ 4;4?45 4ˢ 4 ˢ '5< (ˢ 2=;=ˢ =@@= 75=ˢ ?41=58 (:'178!

B Cˢ Kˢ s''(? '5 45 "67'567('5 (Qˢ 241'5 !

B Cˢ Kˢ =245 48 Qˢ ':!

B -Cˢ Kˢ 46745 48ˢ '1(1ˢ =587 (1ˢ 3(:45 48ˢ 4 ˢ 75(1ˢ ;424: ('=541ˢ '88 4ˢ 4 ˢ 7571ˢ (84:(ˢ 8;'2';4ˢ @=8ˢ Wˢ 165'5=; '71ˢ %4 5(24ˢ ;424: (:(5 Fˢ t;!ˢ 7 ˢ '5ˢ 241'5 Hˢ 4?' '=54ˢ '5ˢ 4 :'8ˢ ?' 4 8(ˢ '5ˢ 84587ˢ 4(?41!

J828 + ˢ 8 ˢE#I8+- -ˢ 8GF2 -ˢ #### ˢ$ -JH ˢX#Iˢ F ˢF ˢ -F+ ˢ ˢ F+8ˢ Eˢ
F+8 ˢ 8G ˢ F2#81F ˢ E # #- + # 8 ˢ -8< + 8-ˢ 8 -ˢ ˢ - 8+#c-ˢ #Jˢ
+E ˢ <8+ˢ SF 8+ ˢ EHFJˢ +8G ˢEF+ I#ˢ^ H Jˢ 8-ˢ ˢ 8X +8 #-ˢ % ; ˢ 8 ˢ <8+ˢ F ˢ
) ˢ 8G#-ˢ +8G F ˢ 8 ˢ EF +F ˢ ˈ D #ˢ 8< F ˢ _ˢ ˢ #c2##ˢ #+8JHˢ ˢ
) " ˢ8 ˢ$ ˢ, "#2E Yˢ 8 ˢ ˢ ˢ +# #HF-ˢ #-- ˢ JJ8<8+ ˢ : F +F ˢ # ˢ
H 8Jˢ - ˢ 66ˢ &F ˢ7 ˢ EF ˢ 8 ˢ ˢ % ˢ / # ˢ / # ˢ
/ ˢ / , ˢ / _ ˢ # ˢ ˢ ˢ # ˢ ˢ ˈ ˢ
/ ˢ / ˢ ˢ ˢ 8 ˢ ,4Yˢ / ˢ / b2r(
/ >ˢ N

% !ˢ ˢ ! J +F ˢ 8+ ˢ 2#-ˢ + ˢ $+8- 8+#ˢ - FJ #ˢ 8 ˢ < FJ#ˢ <#-J <#ˢ
F 8+ ˢ J8 F ˢ SF#ˢ # ˢ 2 J#-ˢ E8-8+ #-ˢ H # ˢ 8 ˢ 28+# F-ˢ 8 ˢ DUF ˢ 8 ˢ 8288 - #-ˢ
,1#E82#F Yˢ I#I8 ˢ^ <+ <+# ˢ E8Ic ˢ ,# ˢ 2# ˢ E#J8@ # ˢ 8++8 ˢJ 8 8 ˢ8 ˢ
8 ˢ -F-F++ # 8 ˢ8 ˢE8 + J # 8 ˢ <8 # F-ˢ 8I# Yˢ 8 ˢE# 8 - -ˢ 8GF2 -ˢ 8 ˢ #-- -ˢ
H 8 ˢ8 ˢE#I8+- ˢ -F+ ^ˢ 2##ˢ 8F# ˢH 8 ˢ + ˢ 2##ˢ 88- +#8 ˢ8 ˢE#I8+- ˢ
- 28 # 8 ˢ$ -JH 28 ˢ 2##ˢ 8 # ˢ 8-F++8J # 8 ˢX#Iˢ F ˢ,# ˢ 2# ˢJ E#J8ˢ X###Uˢ I82ˢ XI#ˢ
JF ˢEF+c-ˢ # 8 # # F-ˢ J828 + ˢ #ˢ <8+ˢ ? ˢ +8G ˢIcX8+F ˢ^ H Jˢ 8-ˢ ; Gˢ
ˢSF#ˢ +# F-ˢ #-ˢ<+ ˢJ G# c 8ˢ 2 ˢ F ˢ+8G Ic ˢ8 ˢ) ˢ 8 ˢ 1#2# +F ˢ
ˈ , ˢ8 ˢ ˢ+ ˢ<8+ #X ˢ 8 < + ˢ8 ˢ -SF8ˢ Eˢ + 2# 8 ˢ G ˢ<8+EF+ I8Oˢ
+F ˢ 8Jˢ !I ˢ # ˢ 8 +F ˢK ˢ <-ˢ 4 ˢ <-ˢ / ˢ <-ˢ ˈ # ˢ
<-ˢ E7 ˢ <-ˢ ˢ <-ˢ + ˢ <-ˢ #ˢ -F ˢ <#-J <#ˢ 8 ˢ 2##ˢ <2F+8- @ˢ
#ˢ I8+ ˢ $ 8- 8+#ˢ 7 ˢ $+8- 8+ˢ ˢ 7 ˢ / ˢ / " ˢ
/ ˢ ˢ / ˢ8 ˢ 2##ˢ <2F+# #ˢ $+8- 8+#

$+# F-ˢ +E ˢ++! @ !8J HEF-ˢ +E ˢ+ O@ 8+ #F-ˢ + @ $+# F-ˢ -#JF ˢ ! 2ˢ
+E8-J# ˢ !8JF EF-ˢ -#JF ˢ F ˢ 8+ #F-ˢ -#JF ˢ- 822 Q

ˢ 2 G#ˢ #- #F-ˢ FJ +ˢ #+8JH F-ˢ 2 #ˢ +E +8JJ 8 -#-ˢ &#-J#<F2F-ˢ 1F# ˢE8ˢ SF ˢ
P + 8F-ˢ E#1ˢ !J+#< +# F-ˢ ˢ J ˢ ˢ # SF# O@Mˢ 2 #ˢ &#-J#<F2F-ˢ #+8JH F-ˢ <#-J <F-ˢ
Mˢ -J+#<-#ˢ 2# + -ˢ EF -ˢ E8ˢ +8 F-ˢ G8- #-ˢ $ +#J##ˢ SF +F ˢ H 8Jˢ 8-ˢ -J+#< # V % ˢ
Lˢ) ˢ ˢ NJˢ #ˢ 2# +#ˢ 8 c F ˢ 8X ˢ ! Q@) / 2 +F#ˢ J#+J ˢ F ˢK. ˢ
JF ˢ ! ˢ 2 F-ˢ G#- 8+ˢ 8U -ˢ #8+#ˢ ˢK. . ˢ +# E ˢ <ˢA _

: F 8ˢ JF ˢ # ˢ -# ˢ H F-ˢ 8- 8 ˢ #ˢ 8XJ8< # 8ˢ U +8 ˢ ! J -ˢ SF#ˢ ˢ
#G8+ JH ˢ Eˢ ! 8JF2F ˢ; ˢ +818+F F+ˢ Eˢ 8 < + ˢ#- ˢUF+8ˢ 8+# ˢ 8--8ˢ E-J+# 8 E -ˢ
ˢS #E8 ˢ # ˢSF#8?# ˢ 2 G ˢ#- ˢE8J2 + F+ˢ 8XJ8< #-ˢ 8 F+ ˢ # 8+ # 8ˢ # # F-ˢ
28GF F+ˢ # ˢ ; # ˢ #SF ˢ /# # #ˢ 8X 8ˢ # ˢ 8 E8 ˢ E#J8ˢ -F2 8ˢ #F ˢ ! J +F ˢ
SF ˢ JF ˢ 2##-ˢ 8I ˢ$ ˢ/+ J#-JF-ˢ H -F-ˢ "F +E# F-ˢ - 8+##ˢ # 8+ #J#

BICˢ Kˢ ## ˢ :3(8ˢ<7ˈˢ?4ˢ # @ 6 ˢ'5ˢ;=5<'5'=ˢ =1=5'458''1ˢ4ˢ (45'458'15ˢ4ˢ 4@= ''1ˢ 4'22ˢ
Kˢ'5ˢ 4 (ˢ. # ˢ'':ˢ48ˢ ˈ ˈ(8ˢ ˈ Bˢ %'2(ˢ (3(ˢ(@7?ˢ 884 !ˢ @!ˢM ,!
B:Cˢ K ˈ =1(578ˢ2ˢ4(2;=5ˢ<'2'78ˢ . =88& =1(5'Aˢ<(5?(=<ˢ '5'(5ˢ '8;'@5258ˢ<5ˈ ˢ7 ˢ'5ˢ%ˈ (ˢ 4G=8ˢ (@7?ˢ 884 !ˢ
@!ˢ !) 2'78ˢ<7'ˢ ˢ ˢ D@ # tDˢ'5ˢ 1=5 4ˢ 2(?'5(Uˢ4ˢ ˢ # 8ˢ67ˢ(:''ˢ(55=ˢ -!

! $! $ /' ! 6' / Y - (' 8 (

I #8 -#-' E8-J+# #JF+ I#' 8' I #F ' + - 2#' ' KAK' F' -J+# #' / 28 # G' #' #-' E' <8+' 2F #' 'I ##' 1 2' KK_' < G B 2' S #' 8X' 8 E8 ' 2 G' < 8' '#' AE 'SF '#' 8+ #' +E# 8' ! J +F ' # 8 #w' E#I8+- -' 1F#--8' 8GF2 -' 8' E#I8+- -' #-- ' J828 + E#' # F- @ #J' I +#8 8 ' - -8SF8 # F-' --8JF2#-' FJ ' ' "F#22# 8+ F-' F# #J8 -#-' F-' E' # 8+ # ' 8G F-' ! wJF2 ' X#' #' $+ #' 2# 822#') ' ' ,-#I8' E8' F+-FY' ' #' --8+##' ! 22 G8' 'C 4' <' __' SF8 ' ' -8' -J+#< F ' #' M' F' E#I8+-#' 8' ! JH#- #J#' #22#' +E# 8-' SF# F-' # 8+ #' <8 8' ' M' E82F- ' 8- ' ' / ' 8' ' J8E ' 11#J# Q' X ' F-SF8' H E#8' X8 <2 +' #-- 2#-' #SF#' # 8+ #J#' ' ' E#I8+-#' 8' ' #228' #-' W J + #' F E8' E#I8+-# -' ' "F#22# 8+ ' ' #18- 8' < 8 #' , KY

) ' + ' H ' & !

- # F 8' - #J ' # 8+ +F ' E' +#8 2#F ' + ' +E# ' 1F#--8' # E#{ ' 2 8- F+#8 -#-' #' # + ' E8' #S' "2 - ' F #' E8' I ' ! ' FGF- # #' 8GF2 ' #' G2# '# + EFJ ' G8 -' # SF# @ M' #-' 8 < +# F-' #<' - 8+#' "2 - #8 -#' Jw<#' L ' 8 E8 ' 8GF2 ' , 8 8E#J # Y' 8X8+J8+#' SF E' <+#F-' 1F8+ ' +8' 8 # +F ' M' G < # Q' " +#82' $8 F-' # ' #- +#' 28+#J +F ' 8G 2 +#F ' ' G < # +F ' - # F #-' 8 +F '0 +E# 8 ' +8<8 8 -' +E# 8 ' #- F ' # ' # 8 # ' ! ' $ +#J##' 8 < +8' # + 0' EFJ F ' 8' < - 8 ' ' # 8 #-' #' +# # ' 8' 82G#' <+<< G F ' 1F#--8' ETJ2 +
' #SF# +8' E#J8' F E8' --8+#F-' 2 GF ' <+wE#J F ' IF2G I# ' M' SF F +' M' E8-J+#< -' 1F#--8' < - ' 2 GF ' 8GF2 - ' , ' + ' ? ' ' L' - +#-' 8 < +# F-' <8 8' #G + #2#' --8+#F-' #<-8' 11#+ ' ' 8GF2 ' 2F 0 #228 @ A' G 22#' 8 JH +8##-#- @ ' JHF #' 2# -' + H G#' #-' H8 #8 -#-' 8' <+# #' <#-J <#' #- +8 -#- @ B' 2 8#' 82 J8 -#-
+8 E #' / # 2 Gw' 1#2##' I# ' <#-' 8E# ' 8' # 8+' #22F- +#--# #' I#+#' w "+8 I#228' -8+I ' 8 + I# F-' -F<+ ' < G' . ' '_A' , _Y@ #SF#--# ' ; # ' ! ' 8 ' 8--8' I#E8 F+' SF ' 8X' E#J8' +E JH ' J# ' / 28 # GF-' F #' E8' 8GF2 ' 8UF-' # SF# @ M' 8X +8' # EF # F ' #SF#' ! J+#< +#-' 8- # #F ' 8- #-' H' #<- ' I82F 4' M' ' 2 8+ ' $ JH # ' 8GF2 ' G82 ' E#J 8' J -{+#< ' E' -F ' F-SF8' 8 < + ' M' <FE' ! ' +8 E #' -FJJ8-- +8-' <8+ -#--8 Q' , CY

B C' %'?4' ((2= 71' 5=8 71' (578; '@ = 71' =V458'71 !' @@45?';4' (?' =2!2' @!' !
B ZC' 45?(5"' %' (1' !' 5= =' '5' ((2= =' (578; '@ = 51' 5 2 4' 4' O':41'(4' <=2!' 9=5' MZ' @(!' - ' =!' ZZ ' ' 41674' (2'(1' @(!' ' 5! ' 5 !22' 4' @(! - ' 5!' Z !' 9 (: ('4?(1' '5' =?';4' (5;'8;(5= !' #'2m455458'51 '8; '@ =' (55=' ' 84?' (5 R65'=' 48' ! = =5' ? (58' (:' O ('8'=' !^' ?4' ; '@ = !' O':!
B C' = '1:(5" @4 (' = (5'' ' <=2!' @!' ' 4' 884 !' @!M M' 49' 4(?41' %' (' !')! @4 ':58' =2(1:(5'" (?G759' ' 241'5 '%' (8' (5 '67'88'1(8' ! =25(8' =;:=41= '' 4' =1 (22'!' 5 '67'88'1(' '55'(52' 4(' 4884' R?4 7 '67(1' 49' 4=?41' =?';4' 58 p24584' 4?'?' =2 (578!') 4' 241'5 =' '?4' K O'8 = '(1' (L '" 454 (:'2'8' K' ('8' !' (';'" 241'5 ' Q' t ;!' @ 41'88(1&=@4 ':58' ='71:(7'!' 2(' (5'' ' <=2!' Z!

+ #ˢ 8GF2 ˢ -8+I F+ˢ # ˢ #SF#--# ˢ ; # ˢ 8UF-ˢ !ˢ SF-Tˢ 8- 8ˢ /28 # G ˢ 8X ˢ F-SF8ˢ Eˢ 8 < + ˢ / ˢ # ˢ JJ28-# ˢ -F ˢ E8ˢ / G G !ˢ , LY@ê !ˢ 2F -ˢ - # F* ˢ 8 + ˢ 8E ˢ ˢ J ˢB ˢ 8 ˢA . ˢ 8 ˢ d g8+ˢ ! ˢ " 228 -#-ˢ Eˢ E#8 ˢ #Xˢ F ## @ & 8ˢ E ˢ 8E ˢ # SF# ˢ K ˢ J ˢ K ˢ M ; #+F ˢ F ˢ 1F#--8ˢ 8 ˢ -J#8 # ˢ Mˢ -J+#< F+ +F ˢ #2#--# 8ˢ # - +FJ F Qˢ 8So ˢ ##8 -#-ˢ -ˢ J+8 F-ˢ 1F8+# ˢ <2F+ ˢ # ˢ c 8+ # ˢ - 8+# ˢ J E#E# ˢ SF 8ˢ -F ˢ 8GF2 ˢ E#J ˢ ˢ +8G8 F+ ˢ F ˢ < 8 -8 ˢ !J+# 8 -8 ˢ &+F# F 8 -8 ˢ 8 ˢ $ #-0 E #ˢ E8Xˢ -F2 -ˢ JF- # JHˢ <+ 8E#J F- ˢ 8 # 8 ˢ 1 J# ˢ 8 # ˢ 8GF2 -ˢ -+8 #ˢ #-ˢ 8 HG2# 8 -#- ˢ SF# ˢ F ˢ 28G# F+ˢ # ˢ ; # ˢ F F ˢ -#I8ˢ /# #ˢ . ˢ JH -ˢ -# #ˢ -F U8J -ˢ H F# ˢ #Jˢ ˢ ˢ +8E#8 - ˢ FGF2 ˢ -F ˢ # ˢ F22#-ˢ +81 + I# ˢ FF ˢ $ -JH -ˢ # F ˢ -F - # F8 -ˢ <+ ˢ # 8+ #J ˢ SF ˢ 81 + # F8 ˢ <2F+# F-ˢ +GF 8 #- ˢ # ˢ ! E ˢ #8 -8ˢ J + ˢ /# F ˢ 8 ˢ 2# -ˢ 8-ˢ F8+#ˢ Jd F-ˢ 8- ˢ E F-ˢ < F2 ˢ < - 8 ˢ # F ˢ F ˢ ##8 -# F- ˢ 2# + ˢ U ˢ E8<8+E# ˢ <8+-F E8+8ˢ -) G+8--F- ˢ X8-#- 8 # F-ˢ #<-#- ˢ 8ˢ 8X<28 F ˢ ##F ˢ _ Aˢ ## ˢ F ˢ -J+# # ˢ 8E ˢ . ˢ J ˢ K ˢ Mˢ 8ˢ +8E8 8ˢ 8 < +8ˢ $ -JH 2# ˢ G+ I# +8 ˢ Mˢ JF ˢ 8#- ˢ SF#ˢ 8F ˢ Eˢ I8+# 8 ˢ -8SF#ˢ 28 ˢ G8+8 8ˢ H 8+8ˢ E#-J +E# Q

8GF2 -ˢ 8 G8 #ˢ ˢ 8 # # ˢ SF#E8 ˢ FJ +?;# -ˢ 8UF- ˢ # ˢ E#J8ˢ +E JH ˢ -8Eˢ -# GF2 +8 ˢ 1F#--8ˢ E#J# G 22#ˢ 8 JH +8 -#-ˢ #JF ˢ 8 ˢ Mˢ F2 +F# ˢ #22#F ˢ # +F ˢ MMˢ # ˢ ˢ , ˢ 8 ˢ ˢ Aˢ ˢ! ˢ ˢK A ˢ) >@ $+ ˢ q #-ˢ 8GF2 ˢ -J+c<-# ˢ - #J ˢ JFUF-ˢ 8 # # ˢ P + 8F-ˢ & 8ˢ !J+#< ˢ

?! J +F ˢ G 22# ˢ 2F -ˢ +8 E #ˢ # 8JH# ˢ NJ ˢ J -IF-ˢ 1F# ˢ ! + H GF- ˢ -8Fˢ JHFE ˢ <-ˢ #- +8 -#- ˢ #-ˢ #228 ˢ Eˢ # F- ˢ JH +F ˢ $ 8+Uˢ ?"D ˢ

- 8+# ˢ # ˢ #E# ˢ J E# ˢ # ˢ 2 J ˢ EHFJˢ E#J ˢ T ˢ # E8ˢ < - ˢ B ˢ # J 2 F-ˢ -ˢ O8X<F2-F-ˢ ˢ # ˢ 8 ˢ #- +# ˢ J E#E# ˢ F #ˢ ## ˢ 8 ˢ -8<F2 -ˢ 8- ˢ 8GF2 -ˢ 8UF-ˢ V- #J -0 8 # # ˢ FJ +ˢ ; # 8ˢ 8UF-ˢ # ˢ <+ 81 ˢ E#J8ˢ +E JH

#-ˢ EE8 E 8-F ˢ 8GF2 8ˢ # fWW ˢ -#I8ˢ [F #ˢ I82ˢ FG#E#ˢ 8 + #ˢ ˢ ! ˢ 8+ +E ˢ # ˢ ; # ˢ ! ˢ 2 JH# - ˢ J ˢ . ˢ 08 2#F # ˢ SF +F ˢ <+# ˢ " +8G +#F-ˢ G F-ˢ <<+ I# ˢ F ˢ # ˢ; # ˢ 2F 8ˢ 8E# ˢ ˢ /28 # G ˢ^ -8 F E 8E#E8+8ˢ " 2E - -ˢ # ˢ $ + 8 cJ#- ˢ 8--# GH ˢ # ˢ /2 +#28G# ˢ H 8-ˢ & JF-ˢ # ˢ 2F ˢ - J+ ˢ /28 # GF-ˢ # 8+ˢ <8+ ˢ 2F #ˢ + 2F-ˢ ! 8 G82#F-ˢ # ˢ + ˢ, FJ#E ˢ 8 ˢ c22 #F- ˢ,A Y

-8Jˢ - #-ˢ - 8 EF ˢ SF ˢ 8++ 88ˢ -J+#<-8+# ˢ 8G 8+F- ˢ I#+ˢ E J - ˢ Mˢ # 8+ 8-ˢ Mˢ I8 8+8- ˢ UFX ˢ $]28- # +F ˢ U/G < # +F SF8ˢ JH +F ˢ - # F* ˢ -# 8ˢ 8GF2 ˢ Mˢ -J+#< ˢ <8+ˢ - 2 -ˢ + E# # 8-ˢ $ +F ˢ -F ˢ I# ˢ GF 8+ --8 Q

#22 #F-ˢ 0# ˢ 28J #- ˢ ? ˢ B ˢ < ˢ KAL ˢ 8X +8ˢ # SF# ˢ # ˢ E#J8ˢ ! ˢ " V228 -8 ˢ # ˢ SF ˢ #] #ˢ $J8 # 8 # 2#-ˢ +8<8+# F+ ˢ 1+ G 8 ˢ SF -E ˢ 2# +F ˢ $ 8 # 8 # 2#F ˢ 8 <8

B LCˢ 241'5 ˢ ':!ˢ @!ˢ !ˢ .4 72(ˢ '((5ˢ 141= (7 ˢ '5ˢ 55(2! 2 !ˢ (55!Z) .4;4584:(5 7 ˢ 51ˢ =; = @ 4;'@7ˢ 24 72(=1ˢ w55?' = 48 ˢ # ˢ # ˢ e -: @!] hˢ; e - ˢ 5J + ˢ 8' 4ˢ M #

B, Cˢ (:'2!ˢ 5(24; (ˢ !ˢB ˢ @!ˢK . ˢ 4?!ˢ ('8 !ˢ KC.!

;# # #,#'8' 7 ' 2F 0 + +E8 -#-Y' 8' F 8 # #-' !J #' SFW' # # E8-J+# # '
F 8 # <F-' -#J' # J#<# V L' F 8 # #-' # ' !J # ' + #' &8' +8 8E##-' IF2 8+F '
M' -8JF EF ' <+# +#F ' $ +F ' E811# # # 8 ' E#J F+#' - J+#-' * # 82 SF##-' # 1#E82#--# 8'
M' 1+ 8+' 8 ' 8E#J 8 ' J <8 E## + # 8' # # 8 F- ' $+# ' # SF8' +8 #--# ' 8- '
M' SF ' < #~ F+' # ' SF ^' -8JF E ' +8 #--# ' +# #-^' 8+ # ' 8288 - +F ' 1+FJ F-^
M' SF + ' <+ 1F-# ' 2 J+ + '^ SF# ' +# # F ' 18--# '^ -8X ' 112#J # ' J +E#-' 8 '
q' J +< +#-^' -T< # '8 8 E # ' +F ^' J I '# 8+J8--# ' ! <J +F '^ ' ' #-8+#0'
M' J +E#W' 8 ' 1#E8# 8+# F '^ E8J# 'J I8+-# ' 8 ' - 2F-' 2# +F '^ F E8J# ' EF2G8 # ' 8 '
M' +8 #--# ' - + '^)#F E8J# '< --# ' + +# Q@) !F UF G#' #22 #F- ' -J+#< +8 ' 1F#--8'
F 8 8F ' 2 F ' SF# !wJF2 ' I## 12 +F# ' -J+#<-# SF8' ;# ' ! ' 2F w' <F-' 8UF-'
E8' 8 -F+ ' < # 8 # +F ' 8E#E# 8X' 2# ' E#J8' ! ' " V228 -8' / 28 # GF- ' < 2L
+ ' + <#E ' 1F# ' 8 ' #+ #2#-' - #J# +E# #-' <8+' # 8 # # ' <+ < G # ' !wJF2 ' I# ' F '
' - 2 ' 8 J +8 -8' ! ' G 22# - \+# ' 8-' J -#- 8+8' ' < --8 ' 8 !SF8' # '
E#I8+- -' J82# - ' 8 ' I +# ' - 8+# ' E#I#E8+8' J J F-' 1F8+# ' E8 ' F ' ,# SF# ' #22 #F-Y'
' ' -F ' 8UF-' E#-J#<2# ' #2# +8 ' 2' ' < ' A L
J' ! ' 8+ +E - ' # ' ; # ' ! ' 2 JH#W' +E JH #' J' 3 ' # SF# @ #2#--# F '
M' 8X # 8+ ' 8' ! ' 2 JH# ' 8UF-' ##- F+ +8 ' H J' 8 #F ' , 8 J +8 -8Y' -F '
M' <+# '$ +8' G822 ' ' ' ' ' # ' &8 ' F2 +F ' -0'
L' 8+# +F ' 1J <F ' JF-' I8+8' - J F- ' 1 8JF EF-SF8' ! J +F 'J <# -#--# 8' 1+ J #1#J -'
M' &8 ' # ' F ' F F-' 8X' 2#2##-' ! J w' #22#F-' G+8G # #-' # 8' ' J8 F ' - 2F-'
M' - 8+# +F ' 1F E +' 8X # #--8' 18+ F+' F ' 8X' H J' F 'J U#J# ' 8J +' SF ' # G8 -'
M' 1F8+#' +82#SF ' F2 # FE8 @ &8 #SF8' # ' # 8+ # +' !J # SF8' +8<28I8+F ' G8 # # '
M' 8UF- ' F ' 8 ' < #--#+ F ' 8 < + ' & I#E#J# #22# I8+-#JF2# <+ 8J# #--8' I#E8 F+ @ U '
L' ' ' , ' !' ' ' ' !@ 8J' E ' # ' <+w1 - ' -8E'
M' # ' 8X 8+ -' 8 # ' +8G# 8- ' SF -# # F E # 8' 1 J ' 2 ' -8' ! J +F ' 8X # ' 8*1FE80'
M' +F ' 8' SF# F-' E' H -' - + -' " 22#J -' < + 8- ' +!' / ' -J8 E8 - ' FX I#8 -8'
M' J - +FX# ' - 8+#F ' 1 J F-' # # # ' G8 8 ' G ' #F ' ' G ' 1F#--8 '
M' F ' -FJJ8E8 # F-' -# # I#J#--# ' JH +#- ' J # F +8 F+' - 28 # ' &#I# +F ' # ' F ' 8'
M' 8 F ' SF#E8 ' E#8# J' J #-' I J +8 ' '2 E# F- Q' , Y
G 22# # ## ' 08 ++ ' #22 #F-' # ' 2# F- ' ' < ' A L ' H#-' I8+ #-@ + 8'
- 8' G 22F- ' JF ' 8# &#-J#<F2# -F# ? ' &#I# ' FJH +#- # ' E +8' I8228 '
J 8- F-' 8- ' -8' ' F22 ' 2# ' 8 + ' JJ8< +F ' SF ' ' ! ' / # JH+ ' 8 ' # ' G8 #8 -8'
8 #w' $+ I# J# ^' SF# ' G82 ' +E# F- ' # ' JH +8 -8' - 8+#F ' 11 2# F-'
JJ8--# ' - # SF8' J F # 8 ' & 2 #J ' #^' 8 ' +<F-' 8 ' - GF# 8 ' H+#- #'
8 #--# ' $ +# E8E# @ !8<F2 -' 8- ' # ' -F ' - 8+# ' SF8' 8X# E8 ' < - ' 2#SF '
- ' + JH#F ' ! ' + G 22#' SF8 E EF ' ' I#I8 8' <8 #8+ ' / # JH+ ' # F# ' J E#0

B, C' 71'3 ' ;=5 45' %' (' 4 78' = 5 ('' (@7?' 241'5 ' @! -!

E# SFT # 8UF- H +8 - 8+#F # +J8 SF #<-# 8UF-E8 $+ : I# J# 8 & FX ;
+ E#E8+ E#E# #E2 <F-JF2 SF +F F F 2 FE # 2F F- FJ +8 SF8
2# # 8 / F- F <<822 # # -#+FJ # 8 A 0) 8GF2 8 -J+#<# -8 82
2 FE # FJ + I # 8 8UF- 8E# 8 /28 # G0 -# F2 JF <8+# F- 2F # ,AAY
** SF E # # 8 - 8UF- &#-J#<F2F- SF# I# 8UF- -J+#<-## 8E#
/28 # G 8--# GH #22 # 8# 2##- < -#SF ++ --8 ,J A Y 2F F
-F G#-#8+# I8 8+ #2#- + ,A Y - J+ - 2# 8+ - # # 8+ # $ +# -F E8E#J#--8
SF# J E8# E8 E ! G 22F <+ 18J#--8 8 F2 d- -F #<-#F- +8G# # 8
8 D +F J#+JF# - <8+8G#--8 8- F+ SF E 8 #<-8 J 1#+
- +FJ A F # ! G 22 -8 8E J F ++ # J -8 8 8 g8+

o2 #- # 8 J +8 -8 8X J #- #- 8 8 - ## X 8+ - +8G# 8- E#+8 E
8X8 <2F 2# +## # 8 +F SF# 8 ET I<JF2 I G82#F + +#- <+ 8E#J F+#
<+ 18J # 8+ E HF J 1# 8 G 22 8 8 <8+F# SF E8 8G+18 J -8 8 8
JF A - J##- <+# F # +# # # E8SF8 # " 22# 8 I#G I# 8 #-
F -J+# # - SF 8 < +8 +8G # F+GF E# "F JH+ F- # F- + -#
H#2E8 8+ F- SF# < F2 < - + F $ +F F F SF8 +8G F # F# F
J#+J# 8+ KL ,ABY

8J 2 # 8X # 8+ # 8G+8--F 8 # " 22# EI8 F +818+F E F
KCL @ F SF#E8 # J8+ F +82# SF# - SF# & 1F# " 22F- 8 8- SF#
#<-F -8SFF F+ 2F # EI8 F # " 22# - FFF -F M$+# J#< !#G8 8+ #
8 ._K SF !#G8 8+ F- JJ#-F- 8- !8E # H J #18- - 8- 8++ +
JF V# !#G8 8+ 8 8 < +8 # 4 8 # ?
<8+ --8 JF# 8 F+GF E# F SF < +F#--8 J - # F < 8 SF 8 8 I#I8 8
8 + F "F JH+ F 8G8 H F# @) Z 8++ +8 # EI8+- H# <+ !#G8 8+
1###F 8UF- H#2E8 8+ F +8< -F8+F !8E =8SF8 -#J 8 E-8 8X<8+- 8--8 8 2 JF-
JF # " 22# 2F F- 8 F .L JJ8--8+# SF 8 < +8 "F JH+ F-
EHFJ - <8+- 8- 8+ 8 #-# < -# - +8- F+G E# 8 0 8G F H#2E8 8+
F- + -#-8 8G# + 8 -F +8-#G I# 8J F- # SF8 +E8+#8F- ; # 2c- 2F #

B, , (=2(1 : (578 4 , ?(= ?'54 (5; = 5 1 67= 7 1 5=557 4 8 8 1 ; 72= <2= 74 '7 = :'4 4 (147
8'4; ! '' ! '; =1 (2278 = :'' (55= '5 (558 ?4 27U4?78; 3 (5= ! ='5((55= ! =41&
4558 = :'' 84; 72= '' (55= ! =27 1 : (578 (55= !
B, C =5 7 '5 (: '22=5 55(H ! @ , ! = m4 (?%(?! 75'' '!4!& (? ?'41 '9 75''!
B C 5 @72; : 4 '1= 4 (5 '67'88'1= =?'; 4 = =5 ('(5 ; = '' 8=@ (2(7?(= @(! M 5 M :(84
24 75 7) [[5! ! (4 =27 1 : (578 49 O' : 4 5'(5872(; = = 1 5C ; 7 1 !] (22= (2''8674 @ = : ('8
K '8; '@''2'8 45'' '5 7 75?'(1 ':'6''4 @4 1 45 4 346?= '; = #4 4 =5(8 4 '5 1 67=? ''9= '''1
K ?'; 84?'''; (N 49'5?4 (754; : '2?(<7 (78!Q) =?4 1 <=2'= (? (55 5!; !9'' K 24 1 (55'(1 '5 4?' 5
B =27 1 : (578C 7 : (5; 7 1] (225 1 42'67' ! @84 4 = '5 (2'(1 58'458 =5(8 4 '7 1 65=? " ?' ''
K 1?'<'; (%' 7 : (4 1 72 = 7 1 =5(; 3= ; 7 1 49 '' !Q
4885 1 =27 1 : (5 49 O' : 4 5'(4G78654 '5] (22'(1 (? 45 7 1 ; <4 884 ! (? (55! ! - M '?674 49
('(5=! '1 = ?! @! Z -! +%'?4 87@ (@(! - 5! !

! &' ! ' ;

' " 22# ' JJ8--F ' +818+* E' +8G F ' H#2E8 8+ #)' F22 ' 8G #' F+GF E#J#' 18J '
8 # 8

: F ' ' 2F F-' ; - GF ' E#8+# ' 8X' 8 ' J 22#G# F+' SF E' # E8' +F 8JH#2E#-'
- #G # 8' <F2-F-' 1F8+# ' ' ' ' ' ' ' ' #<-8' -' 8- F+'
"F ' 8 # ' 8 E8 ' 8- 8' ' ' J' 8X<F2-# 8 ' H8 E 8+ #' J' H8 E8+#J#'
+-' 8 ' +JH#W' / + J#Jw' E' H2 H +# ' E8 I 2F # ' -F -8JF '1F8+# ' SF E' F +F SF8'
'K ' J8+ F ' 8- ' J #G#--8 ' -8SF# F+' 2F F ' ' #V' ' . CL@L ' ; - GF '
J 28+8' Jw<#--8 @ ++ ' # SF8' / 28 # GF-' SF#' 8F ' ' q C' F+ ' --8+##' SF8'
w #-' -FW' ' X X X ' # ' " 22# ' + -##--8 ' ' " ' . . ' ' I 8 8+8' 8J # +# ' FX I#8 -8'
' 8++ +8 ' # EFJ F-' F ' #<-8' # E#J #' # ' &#--8+ ' E8' JH F' 2F #' <' B A

&8' < +# ' " 2F #' -J+# # ' -' JF+ #F-' SF ' E8' #-' M' -' 8- ' # SF# ' # '
M' # 8+ # ' -F2 ' # ' 8X +8 ' J8 ') -# 0) J' ! J +F ' G8 -' U J 2# ' " 8 -' SF 0'
L' SF ' -SF8' +82#SF +F ' G8 #F ' 28G# F-' 8 ' # ' H+#- # #' I#G +#-' E G 8' 12 +8 -'
M' #F ' I#J# +F ' G8 #F ' 1#E8' <+w< 228 Q

$ F2 ' < - ' ' FJ +' ; # 8' I 8 8+#-' +!' J 4 ' 8E# 8' # ' ' B ' #SF +' 8J # F
' " #-##' <' K L' # SF# @ M' ! J # ' SFw' ' # 8+ # ' E#J# F+' -F2 ' 8- ' +#-' J8 #'
M' 1 8JF E ' SF#E8 ' G28 #-' -8E' ! J #--# #-' E +# +' I#+#-' é 8X' SF# F-' " 2F ' G] FE8 '
M' 2# ' 5 ' E# F+' 28 # ' J ' 8F #J ' #2# F+' / + J# Q

- 8+#F ' J E8+8' - F8 #' <2 { # ' I - ' ; -8G# ' -#I8' ; G8-# ' ! 2# FE ' 8 ' J - c # '
' I8 8+#' " - + ' G+ 8- ' # ' +8 ' F #' I#X' 2#FE' E' I# 18F ' <+w 8+' H8+ -' 8 ' + +F '
J + #J8-' -F<<8 8 @)$ - ' < FJ -' F 8# ' E#8- ' 1 ' <8+I8 #8 8' 0 EI8 F-' #) F- ' E'
; #JF ' I F2G ' E#J F ' ' + T ' SF ' # ' 2 J ' ! 2#J#-' - 8+#F ' < -# F+ ' 8+ ' +# F-'
#22# +# F-' ' +8 ' J#' - ' + JF-' # 8 ' " 8228+ +#F ' #-# ' +JF2#F '
JF ' J + 8 # F-' &8# E8' 1 ' E8' 8 ' 8 ' ! J##-' <8+J+T 8-J8 8' X' ' &#-J*<F2 -' EEFX# '
F ' 2#FE' # ' 8 E8 ' - 2# FE# 8' - 8+#F ' # - # F8+8' E8J+8I8+# ' # ' 2 J ' "A ' E# '
J ' # # F-' < --FF ' ' G+ 8 -# ' M' - FJ ' # SF# ' #22 ' # ' 2 ' < ' A A ' '
M' E ' -8+I#' J' # G8 F# ' -8E' # #F ' 8 # ' 1#2## ' -< w #-' <H 2 + 8 c-' J J ++8 '
M' -#J' F ' ' J 12F8 #F ' F+ ' F #F-' " 8 ##' -8< ' J <8+8' ' < --8 Q@) FE'
SF8' - 8+#F ' J - +FX# ' 7 ' ' SF#-' # E8' -J F+#8 # F- ' <<822 F ' SF '
F I ' " 2 # ' E8EFJ* ' 8- ' $+ J8-- ' 8 < +#- ' / 8 -#' 8 ' G+ 8 -#' $+ -< -# #'
' " 2F ' J - # F #' SF#' +8G8+8 ' -F ' #<- ' 8 ' -F ' <+# J#<8' 8UF-' - 8+# ' FX I# '
SF E' #F ' 2# +F ' J <F ' 8+ @ # J' <+# ' +#G ' $ c + F ' 8 <8' E8EFJ # '
I +F ' -F ' <+# J#<8' 8' 2 # + ' SF -' $+# J8<-' - 8+#F ' J E8' J <8+8'
' < 8+ # @ #-' 2 J#-' # - # F #-' # SF# ' - ' ? 2F F-' #<-8 ' F ' -F F-' 8J +'
<+ 88+ ^' SF8' F ' F ' 8 E8 SF8' #F ' I#I8 E#' + ' 8--8 ' q' 8GF2 + ' SF '
M' 8 8+8 ' ! <#+# ' ! ' +8<28 F- ' J E#E# ^' # ' SF ' SF 2#-' 8 ' SF 8' &#-J#<2# 8' ; #+' ! J F-'
M' 1F8+# ' G -J8+8' 2#J8 Q' , A . Y

B, C . 4 (2(' 8 (' ;=58 (' 5= 41' ?75 (9(' (@' 7 8' '5' 4?' '8' 4941@2(':58!' * 5' !*(2'65(5?=' 1!' =:

$+ 8 8+ˁ 8G 2 ˁ 8X ˁ 8 # ˁ K ˁ / ˁ SF Eˁ # ˁ I8 F- #-ˁ E#J# F-ˁ
S # -E ˁ I J +ˁ Mˁ # ˁ / , ˁ K ˁ ˁ , >ˁ S 8 ˁ # 2F ˁ <+ 81\+ˁ
G - 8ˁ ! ˁ E 2+#J#ˁ # # 8ˁ E8X ˁ 8Xˁ #SF ˁ # ˁ + -J+#< F- ˁ JF#ˁ I8 8++# -ˁ
! ˁ " 228 -#-ˁ -# #2#-ˁ 8+ @@$ 8-J+# # F+ˁ # ˁ H Jˁ 8GF2 ˁ F ˁ I# ##ˁ SF# ˁ # E J #ˁ 8 ˁ # 8X<8+ #ˁ
ˁ / ˁ ˁ ˁ SF Eˁ +GF 8 ˁ 8- ˁ U ˁ 8 ˁ 8 < +8ˁ J F # 8 ˁ -F ˁ F ˁ
F ˁ -<8J#8 ˁ SF E SF8ˁ # ˁ F-Fˁ 1 #--8 4) / # ˁ 8 # ˁ 8 # ˁ E8ˁ 18--# 8ˁ 1##J#8 E ˁ
! J8+E #ˁ F ˁ # ˁ 2# + ˁ E8ˁ $88 # 8 # +F ˁ 8 -F+ ˁ ˁ BA ˁ # ˁ / 28 # G#ˁ 8J2ˁ < ˁ L_
; # F ˁ # SF8 ˁ - 2 8 ˁ Eˁ J 1#J#8 EF ˁ - J+ 8 F ˁ 8 ˁ -8I ˁ 8ˁ " 22# ˁ I82ˁ #-< # ˁ
8 -ˁ H F#--8ˁ 8J8--8ˁ 8- ˁ ^ 8 ˁ SF#E8 ˁ 8Xˁ G8+ JH ˁ Eˁ ˁ . ˁ 8 ˁ 8Xˁ 2##-ˁ
#SF# +# F-ˁ ˁ 8 ˁ J# #-#ˁ ?J - ˁ F+JH8+ JF ˁ 8G8 ˁ # ˁ J E ˁ -#I8ˁ E 2# ˁ I# #ˁ
-F#1 J F ˁ 1 #--8^ˁ 8 ˁ 8Xˁ ˁ -8I ˁ < 8 ˁ 2F F ˁ # ˁ # 8+ # ˁ +8E8F ˁ
8 #-ˁ # ˁ " 22# ˁ Mˁ JJ8<#--8ˁ ˁ #28ˁ 1 8 # ˁ $+ JF2 ˁ J8 F ˁ E# -ˁ I# #ˁ 8 ˁ ˁ 2# ˁ
Mˁ 1 8 # ˁ #28ˁ 8 ˁ 82#G# - ˁ &hE ˁ A ˁ 1+F 8 #ˁ 8 ˁ ˁ E# -ˁ , ; #E#YQ@)F#ˁ ++ #ˁ
-ˁ # ˁ ; # ˁ 2F #ˁ J ˁ ˁ 8E ˁ / 28 # G ˁ < AC .
<8+F ˁ 2F #ˁ 2 G F ˁ -8S 8 8 ˁ 8XH# 8 ˁ / 28 # GF-@

ˁ 8 +# ˁ # ˁ F ˁ $- 2 8+#F)@) 8 + ˁ ˁ $ --8I#
A ˁ <#- 2 +F ˁ EI8+-F-ˁ H8 E +#JF ˁ 8G8 ˁ E c2 8+ ˁ 2# +F 2 ˁ $ -!8I#
ˁ - 8+# +F ˁ 8 E#ˁ 2# +F ˁ ˁ $ --8I#
B ˁ + 8 ˁ EI8+-F-ˁ I +c # ˁ 8XJF-F ˁ -#28-8ˁ # ˁ ; #ˁ I8 8+ˁ $ 8 +

1 '57 '= 48ˁ 84; '=548 ˁ ' (ˁ 5 ˁ ; (@7 ˁ 72 '5'75" '5ˁ=1 5' : 78 ˁ B(1ˁ @ (42=ˁ 4?' 'W 65(1ˁ ' ˁ 8' '= ˁ # 1 + ˁ @ 84 4 &
65(1ˁ '5ˁ !ˁ = : '4584 ˁ '5ˁ 67=ˁ (2'5?ˁ (@' 7$7 1ˁ (?G' ; ' 7 ˁ ˁ % #1 ˁ + ˁ 57?4ˁ 1' (" i 7 : ' ˁ '5ˁ =5; = ?' (ˁ
. 4 72(7 1 ˁ (@''?ˁ 45(?ˁ @(!ˁ , ˁ (ˁ 454?' ; =ˁ : : (4ˁ 5(5'458' ˁ ' '?4 1 654ˁ (ˁ 1 4 (2?= ˁ ('<4 " ; (@7 ˁ
1!ˁ 49ˁ . 4 72(ˁ =27 1 : (5' ˁ 67=?ˁ o4674ˁ '5ˁ =27 1 : (5" . 4 72(ˁ o4674ˁ '5ˁ ˁ 4'? ; 1ˁ 87 : G75; = ˁ 4@4 ' 7 !ˁ
(:' ˁ 1 (' ˁ ! ˁ @!, !ˁ =5<4 ˁ @4 (ˁ =27 1 : (5" 4?' (ˁ (ˁ 24 1 '5 =) 58 ' 5 (ˁ =27 1 : (5" @('1ˁ (:ˁ '@8=ˁ
49 ; =U ((ˁ <7'884 ˁ @('1 ˁ ?4 ' ((ˁ (ˁ ('8 " 87" =1 (22" =5(8 4 '=ˁ 45 ; 3= 4584 ˁ = '78ˁ ; ; '?45 '8ˁ 1 (9'1 =ˁ
7((ˁ = ; R88' 1 58ˁ " 4@4 ˁ '5ˁ : =5' ; '8ˁ 454?!ˁ ; 45 !ˁ ˁ 7 : " '565' &Tbbˁ '2 5?ˁ 4884ˁ 757 1ˁ 4ˁ 1 62= ' : 78 ˁ 67(Tˁ
Kˁ 5=8 (ˁ 8(; (ˁ . 42' '=ˁ 3(: 7' ˁ 42ˁ 4 '(1ˁ 8' ; 5 " ; 4?= ˁ 1 (9'1 (1ˁ =1 5'7 1ˁ 67^ˁ '5ˁ 7 =@(ˁ = (ˁ ; =5?' (ˁ <74 75 Nˁ 4 ˁ
Fˁ '5ˁ ; ; '?45 4ˁ (2'7?ˁ 54 ; ˁ 1 (G58 ˁ 54 ; ˁ @(ˁ <5'884ˁ 24 45?4ˁ ; = 1 @4 '!Qˁ 5ˁ 4=ˁ =5(8 4 '=ˁ 5=5 '5 = ˁ =5(; 3=8ˁ (ˁ
(5'8ˁ 75=ˁ ?'4ˁ 54'?(=8 ˁ 8 ; ' : ' ˁ W !ˁ 4 1 (?78ˁ '5ˁ %' (ˁ !ˁ (2(; 3'^!) 5?(ˁ @ = ; 4884 4ˁ =27 1 : (578ˁ 4 ˁ = ; ' ˁ
O 6 ˁ ˁ 1 8 ˁ 67= 7 1ˁ @ '= ˁ !ˁ h224584ˁ =5(8 4 '7 1ˁ '5ˁ O 42 4?(ˁ ; =5?'?' ˁ 4 ˁ 4<4 45 4ˁ = m4 =
@=@727 1ˁ (:ˁ 4 = 4ˁ ?=2('^ˁ 4 = ; (%' !ˁ ˁ 5= 7 1ˁ 4<<4 ; 7ˁ @ ^?' ; ('=54 1ˁ 87('5ˁ (7?'45 ' : 78ˁ ; =1 1 45?(' !ˁ
Kˁ 7 1ˁ ' '5(ˁ @'4 (8ˁ 45 " 24 1 (5'^ˁ @= =27 1ˁ <4 ; ' ˁ 67" 5('=54 1 ˁ 67(1ˁ ((5'8 1 =ˁ '5 b?7 (1ˁ 4@4 ' ˁ ??4"
Kˁ 45 (4ˁ '1 : 7 (1 ˁ ?4ˁ 454 : '8ˁ ' 5= (5 '^ˁ (?ˁ =24 1ˁ G78 ' '^ ˁ 67" 3 '8 78ˁ 48 ˁ 4?79' !<ˁ (?ˁ 9 '" 2'(2!ˁ = !
=27 1 : (5" = : ' 7 1ˁ 4?(ˁ : '8ˁ 4 : '8ˁ 45((ˁ '5ˁ (L =2!ˁ (?ˁ , ˁ = !ˁ Kˁ 5ˁ (2'(ˁ =5(8 4 '=ˁ = : '=) ˁ
Aˁ 4@=8' '=ˁ !ˁ =27 1 : (5" : : ('8 ˁ 67" 1 72 = 7 1ˁ 15= : '= 7 1ˁ <75?(= ˁ 4 ˁ '55714 (: '2'75 ˁ (4 ˁ 49 ' ' ˁ
Kˁ =5(; 3= 7 1 !ˁ 1 72 '8674ˁ ' 7 ' : 78ˁ ; 2(78 ˁ 67'4 ' ˁ '5ˁ 8454 ; 7 4ˁ : =5(!Q) %'?4ˁ @2= (ˁ '5ˁ %' (ˁ !] (22' ˁ 8 ; '@ (ˁ
(E ?7< '?=ˁ (: 454 ˁ ; !ˁ ˁ 4 ˁ '=ˁ %' (ˁ i !ˁ 7?=45" 8 ; '@ (ˁ (ˁ '?4 =?=ˁ '(; =5= ˁ ' 4 1ˁ '=ˁ ?4 ' ; "%' (2'8ˁ O '8 !ˁ
; ?!ˁ ! ˁ 4 ˁ '5ˁ 48 '1 =5''8ˁ ; =5 48 '8ˁ (ˁ 24 1 '5 =!
(4(ˁ 4 ; = ˁ 54ˁ =27 1 : (57 1ˁ (57 1ˁ ; 7 1ˁ @25 1 : (5=ˁ G5'2'= 4ˁ 87=ˁ '8 ; p@72=ˁ 4 1 ? _5?(!ˁ 4ˁ G75'= 4ˁ
('" =5(8 ˁ ; !2 ˁ @!ˁ , , ˁ 7 : " '56=' ˁ 49ˁ 4=?4 1ˁ 454 4ˁ <7'884ˁ 67=ˁ 4 ˁ !ˁ =27 1 : (578 ˁ 75=654ˁ ; = 1 1 4(7ˁ 4 ˁ
H15= 1 '54 ˁ 49ˁ O ' : 4 5' (ˁ @ = ; 4884 (!Qˁ 9ˁ 4 4 4ˁ # (247?('=ˁ =5(8 4 '" '1 _?245 'Uˁ (: 'O=5'78ˁ 48ˁ =27 1 &
: (5=8ˁ 455 1 4 (ˁ M # ˁ ?4ˁ 67=ˁ '5ˁ ; '8ˁ !ˁ 4' ; =2' ˁ 4 ˁ (2'=8ˁ ?7=8ˁ @ ^?' ; 48!ˁ 5(24 ; (ˁ !ˁ !ˁ @!ˁ !

_A !' &' ! ' ;

.' +' +# -' 8E# 2 #' 2# + '

'' $# + ' - +FJ # F '2# + ' ' <#-' 8E#

_' 8G 2 ' - #J ' <#-' 8E' # J#<# @ M' $+# ' #F Q &

?' 8G 2 ' 8 # 28 ' <#-' 8E' # J#<# @ M' ! F ' 8V Q

L' <#- 2 -' I +# -' E' -' $ #1#J8-' <#-' 8E

' <#- 2 -' <2F+8-' E' " 22#J -' <#-' 8E

' <#- 2 ' E' -F -' JH -' FX I#8 -8-' <#-' 8E

A' &8' 8 -F+ '< 8 # 8 # +F '2# +#2 '(' <#-' 8E

' &8' SF8- # 8' $ -JH 8' E' +#G#F '2# + #

B' &8' 8 E8 ' SF#J- # 8' E' $ < ' F' + # + +' " +8G +#F '2# + -' +8-@

.' $ 8 '; +# ' <#-' 8E# ' ' <2F+# F-

K' 8 +2 '# ' I G82#

? _' M' F2 ' 2# ' SF 8' E' J F ' -F ' E#G ' I82' E' E J8 EF ' F #2# ' J E#E#
E#J Q' # SF#' -' J' A

&8' 8 +# ' 8UF-' -F<8+' $- 2 -' -' # SF# ' J' ' M' F ' 8UF-' # ' <8J +8 M' &#I# +F ' H8- F+#' !J+#< F+ +F ' J E# #' 8 8 F+' ' # + ' E ?8-J8 # 8' 8 8 ' L' E8 8 -' $- 2 +F ' # +F ' 82# ' -8+ 8' 8X< 8+8 Q' J' <F-' ' + ' JH ' # ' # 8' 2# + +F ' - 8+##' !' " 22#' # ' !#G +@ X< -# # ' !' 2F #' -F<8+' 8-' $- 2 -' I #'

<8+#-' J +' +# -' 8 # #' -' J' AL@ M' +' SF -' # S ## ' # 822F '12 +8 #-' M' !J#8 ##J' E8E# Q@0&8' 2# +#-' 8UF-' -F<8+' SF 8- # 8' $ -JHW' #<-8' 8 # 8 ' 1 J#' # ' <#- ' E' " 22#J -' 8 ' # ' <#- ' E' $ < ' #1 J#F ' SF 8' # ' # 2# H8J ' $ $ ' 8 ' ' /28 #FG ' IF2G 8' 28GF F+

F-S # ' 8 # #' 2F F-' ' $ +#J##' -8E' =8SF8' F-SF ' 8 # #' / # # #' +8 E #' ,A_Y' # + #' # #' ,ACY' I82' <2F+#F ' 2# +F ' SF +F ' +8JS -' 8+ ' 8 ' #22F- +#-' -F ' -I ' 8 +# '^ =8SF8' 8 # ' 8+ ' # ' # '; # -' ! J +F ' -J+# 8 8' I82' 8GF ' F' E J +F ' # 8+ #4' !8E' 18+ -' + + +F ' +8-' E' I G82# ' UFGF ' -F I8' +8I J +8

; 8#28 ' - 8' F ' 2#SF ' 8X +8 ' # ' !J+#< #-' 8UF-' 8 +# ' 8 # ' JFUF-' F ' 2# GF ' # 8+ #J ' -J+#< F ' !-8JF2 ' I#' 8E#E#' 2G F-' # ' +# E8 ' < G' . .' F ' / # ' SF#' 8 E8 ' - 8JF2 '; # ' +#G#E-8' -J+#<-# ' F' # ' 1#22#' # ' $ 8 W' 8G##' +8G 8') ' ' / ' SF#' !J+#<-#' 2# +F ') ' # 8+< 2 F ' !-8JF2 ' X#I' F' G) ' # ' 8' WJ#' 2# -') G7 # ' E ' SF ' 2G F-

B,ZC' 5' 55(2!' 5'8!U(2!' (?' (55!' -Z ' K' 7'48' 45?(7" 2=(5<4 458'8' (55=' A ('8' M ' 4 ' =?3" <'22" =;3=?'" K' ='1;(5(I' . 4 '8' =55(;'A' 652' 2=;71' =5(8 4 '" ;=5?45?'' 5(;3?75' ?'; 71' !' 45?(5=' ?=5(' !Q' %'?4' 67A' ?4' %' (' 4G78' ?'; (' 875 ' 87@ (' @(!' !

B, C' '(5(1'8' (132'(458'8' 8; '@8' ' 8A;72=' %' %' (1' !' (';'' ' ;7G78' < (1X5 (' 84 (" ?';77 7 ' '5' !' =?24'(5=!' ((2!' !' 5 2'A' 4 ' O':!' =!' ,! ' @(!' ,-' '(5(578' =:'' ' (55=' ' %42' M!' =5<4 ' O '8 ' =<' '83' E ' 4 8' =!' 7:2'5' Z ' ;71' 55(2!' 2!

2 !' &' ! ' ; e

' J *-' < G'A ' ###S # ' M' -J+#<-#--8' < +# '-8+ 8' 8#8+#U 8' E#I '- ' <F-JF2
M' S 88' - 8JF2#-' < - 8+# +# F-' ' F2 #-' 2# SF# ' # ' I8 8+#' < +# ' E# 8' 8' #SF# 8'
I8+- #-' FE' 1 J#28' <8 8 + +1' < --F Q0@ +F ' <F-JF2 +F '<+ 8J#<FF '8+ ' + 8 '
8+ #JF ' JF#' # F2F-' M' ' / G / >' -#I8' X #JS' ; #-# ' ! 2 #'
JFUF-' 8X ' X8 <2 +' # <8+18J F ' 8 '# 8+< 2 F ' # ' H J' # 2# H8J ' !1 I+8 -8^' 2#FE'
8X8 <2 +' <8 8-' -8' HS F#' 2G F-' F #' 8 ' ; # a' 8 +#Ja' ! ' !S #' # 8+ #J8' -J+#< a'
' 8 E8 ' aJ' # ' -# 2' J# ' ! ' #J#' <8+# F-' 2##-SF8' !4JF2#' I#' ES<8+E# #-'
' E ' ' 2F ' 8 + +#' -8E' - FE# -8' J -8+I +#' G FE8+8 ' !8E' +8 F-' U +#-'
8 #' # 8 F-' ; #+' F SF ' # #F ' 2 FE EF-' #' SF ' < F# ' E#2#G8 # ' < <F28-'
< #F-' E' 1#E8 'J I8+ 8+8 ' 8 ' *-' +# -' # F8+8' #-' I#+# F-' # 8 F+' =8SF8' E'
2# 'JF+ E ' 8 <F-' I82' I#+8-' -F<<8 8

8-' -8JF E#' +E# #-' ! ! ' # 8+ 8 -8-' !aJF2#' ; 2 ' H J 8 F-' # #' 2##SF8'
<2F+8-' ,ACY' SF#' 8X8F 8' !aJF2 '#- '8 '#<8F 8' ; '12 +F8+ ' E' +#8 2#F ' JH +F '
+ ' - # F ' -F ' J E#E8+8' F22F ' I82' FGF- # # a' ; 82' 8 8E#J # a' 8GF2a'
8 # 8 ' 1 J#' 2 F-' 8 ' #E ' # +8 ' H 8' 8GF2 ' 8UF-' JF ' FGF- # #'
8 # #J '<+ <# SF# 8 'SF 'JF ' +#8 2# F-'SF# F-' # #' J# #' SF 2# 8 '# '$- 2 E#a'
+E# 8' 8J' '8 '# '#<- '-8+ #-' F-F' <+ <#F-' JJ8E# ' 8GF F+' TZ# '# ' 8GF2 ' 8UF-'
c< - '8 E8 'I8+ ' ') G < ##-' < JH#-' <+# '< - #) 'F ' ' !'
' ' SF +F ' 1+8SF8 -' 8- ' F-F-' <FE' +#8 2#F ' 8GF2 +F '
228J +8 ' --# F ' 8 '# ' 8GF2 +F 'J 22 # 8' 8E# ' ' FJ ' 2- 8<#

2F F-' # ' - +FJ # 8' ' 8E# # #-' /28 # G#' # SF# ' M' I#--# 8' <8+' #G 8 '
M' <+ # F+' F 'SF E ' + 8' 8++ '8 '2F F '#G #-' E#--82I ' 8 ' -#' SF#E' F+#' 8 ' +G8 #'
H F8+# ' F 'Ja 8+ +F ' 8++a' F #2#F ' < + J + >U ' 2#SF81 J ' E8 - +8 Q' SF#'
--# F-' 8 E8 #' I J8 ' -##+< ' ' +#8 2# F-' # ' 22 # 8' ' J 'A ' E' 8X<+# 8 E '
-#G '1 2- ' -#I8' F #- ' EF2 8+# '^ 8 ' SF#' HFUF- E#' 8 ' JFE8 ' < + JH 0'
+ J a' I J F+' F #' ' +*G8 8- '8 ' H8 E -##' E8X ' E8' 1 2- ' 8 ' L ' # '? '
'SF#E8 ' JH#' 2] +# 8 -8- ' 8 ' -H2a' <+ +#a ' 2##SF8' ++H8 #' +#-' JF 'SF# F-'
! ' + # -' 8 ' ! '$ +#J# -' <2F+# F-' #-' ; 8+- #' -F ' ' #G < c#-' 8 ' $ 28- # #-'
&#-J#<2# ' - #J '+8J8<8+F ' F < 8 ' 8X' !F2<cJ##' !8I8+#' &# 2 G ' E8' JH#-'
+#8 2# F-' 8 ' 8X' ; # ' + #' <+# #' 1F E +#-' #+# 8 -#-' JF#' --#] F-' -8+ 8 '
E#+#G8 -' # SF# 0@M' ; -' ' ! J #' $ +8-' + 8' 8 ' FJH8+#' ' #22 +F ' -F 2# #F '
Q' I#+ # ' '? , ' ' ' & f ' ' 2 E8' 12 # #' 0F

B, C' =4 78' 4 ' ; '@ = 48' '5;27?=' 67' ' '5 4 ' (5; =8' (' 5=75722'8' 5714 (5 7 ' 7 ' =;3=?'78' (2'(5' @ 84?'; 78'
67" !' 45(5" 5'8;(458'8' %' (1" 04 '8' 0':4 5';'8' 8; '@8' ' 4 ' (54 L ';51' '5' 2(5?41' @ ' ::('8'
5'8& =42458'8' '5' ' ;=5(2#(*)' 41' !(*?4;w8' =4 (' (4 ' (55';' ' %884 !' @!M-Z ' ' ,?78' ::(8'
!0''458'8' 67" !' =271:(4' %' (1' 4 ';4' 4 ' 0':41';4' 8; '@8'884' <4 7 ' '5' =2 (5" '(?4' @!' M ' Z !'
'<'2'78' 45R54" 67" !' 45(5" %' (1' 4 ';4' 8P '@8' ' 7555 ' 8' 4' '5 (578 ' 67" =:'' ' (5?(4 78 ' G79 ('
4 5(;371 '(55= ' 42'G79 (' (2'=8' - ' t ;!

'' '

Mʿ F F-ʿ SF#E8 ʿ I8- +F ʿ # G8 #ʿ 1+ +F ʿ 8 # ʿ < 8-#E8 -ʿ #22 + ʿ S S 8ʿ $ +F ʿ
Mʿ ,)G < # +F Yʿ <+-8J8< #-ʿ < 8 ʿ # - # F#ʿ 2 8+ʿ I8+ ʿ F ʿ T # ʿ J +< + 2#ʿ 8 +F E8 ʿ
Mʿ G8E#1#J +8 F+ʿ -<8J F ʿ # T ʿ ʿ I 8`4#*Q0) *#+# 8 -#F ʿ #SF ʿ? 8GF2 ʿ ʿ
8X ʿ -8Eʿ # ʿ 8 ʿ *G < # +F ʿ - # F 8ʿ I#GF#--8ʿ -J+# # ʿ --# F- ʿ # ʿ $+-81 # 8ʿ Eʿ ##ʿ
22 # F8 ʿ 8 ʿ FJH8+#F-ʿ # ʿ <i -JF2 ʿ E8ʿ 2 FE8ʿ 8+8 #

Eʿ + ʿ +#8 2#F ʿ 8GF2 +F ʿ 8 E8 ʿ E ʿ # 8+ +F ʿ 8GF2 8ʿ J E# ^ʿ
1F8+8ʿ ^ =8SF8ʿ <+ #28ʿ 8- ʿ JH -ʿ # 8 - ʿ I82ʿ +# 8- ʿ -#ʿ FGF- # # #ʿ 1F#--8 ʿ
F ʿ 8 8E#J # #ʿ ʿ ? # # F-ʿ #-ʿ E#-J8--F+ -ʿ -#JF ʿ E#--#E8+8ʿ F #I8+-#ʿ F-SF8ʿ Eʿ
! 8JF2#ʿ ; ʿ 8E#F ʿ F- + 28-ʿ Eʿ ! EF ʿ F-SF8ʿ 8 8 -8 ʿ 8 ʿ F ʿ K C ʿ +8 28-ʿ Eʿ
ʿ ʿ_ ʿ 8 ʿ ##8 -8-ʿ Eʿ ʿ - 2 8+ ʿ_ K

+E8+#JF-ʿ ; # 2#- ʿ E8ʿ 2F ʿ 8 ʿ E8ʿ 8GF2 ʿ 8UF-ʿ # SF# @ Mʿ E #+ E -ʿ - J # #-ʿ
Mʿ $ 8+ʿ # 8+ʿ <+ -J#<F -ʿ 2 + I# ʿ !#G #-ʿ 8 ʿ <+ E#G##-ʿ G2 +# -8ʿ # 8+ʿ 8++#G8 -ʿ 811F2-# ʿ
Mʿ !<#+# ʿ ! ʿ 8E J F-ʿ JH 28 ʿ 8GF2 + ʿ 8E#E# ʿ <+# F-SF8ʿ " 22#-ʿ + E#E# ʿ / 2 +8 0ʿ
Mʿ #--# #ʿ E8ʿ ! JH 2 ʿ 8UF-ʿ JH#ʿ <+ E#8+F ʿ 8 ʿ # ʿ F E ʿ I82F ʿ - + ʿ # ʿ 1#+ 8 ʿ
Mʿ I#+ F # F-ʿ #JF8+F ʿ F- -# -ʿ 8 # ʿ FX I#8 -#- ʿ G#2F-ʿ 8- J8 -#- ʿ $H + ʿ
Mʿ 82E8 -#- ʿ FE 8 F-ʿ #8 -#- ʿ $H#2# 8+ F-ʿ " 8 8 #J8 -#- ʿ 2##SF8ʿ <2F+8-ʿ <#-J <# ʿ
Mʿ 8 ʿ 8-ʿ 8XJ8228 #--# 8ʿ <+ J8--8+ ʿ 82#G# #- Q

&8 #SF8ʿ SF 8ʿ E8ʿ #J#-ʿ 8GF2 +# F-ʿ ! ʿ FGF- # c ʿ # ʿ # 8+ # ʿ 8ʿ ! 8JF2F ʿ X#ʿ
+ EFJ #- ʿ IF2G ʿ ++ F+ ʿ 1 2- ʿ -F ʿ # ʿ " #J +F ʿ # ʿ JJ28-##-ʿ H8E+ 2# F-ʿ
228G# ʿ +#G# 8 ʿ E8 8 ʿ ! 8JF2 ʿ I##ʿ 8GF2 + ʿ <+# ʿ JJ8<8+8ʿ 8 < +8ʿ FE I#J#ʿ $##ʿ
F I# ʿ 2F~#F-ʿ Eʿ F<F ʿ / 8++ +#8 -8 ʿ < ʿ _A ʿ ʿ # F E -ʿ H < 822#ʿ #JF-ʿ
8GF2 +#-ʿ ! ʿ FGF- # # ʿ 8 ʿ $+# +ʿ ! ʿ 2#G## ʿ # ʿ #- ʿ #J +F ʿ So 8ʿ <+ E## ʿ ʿ
$ +#- ʿ KLL ʿ 8 ʿ +8J8 -8 F+ʿ # ʿ J #-ʿ +FE##ʿ #<-# 8ʿ 0 ʿ ʿ -F<<28 ʿ < ʿ . . ʿ 8 ʿ ʿ 8 +#J ʿ
FG 8 ʿ +E# #- ʿ $+ - + ʿ JH ʿ Mʿ ? ʿ ʿ 2ʿ ʿ ʿ / J !>ʿ
FX8 F+G ʿ ? I ʿ _ ʿ 8J ʿ # ʿ G -< +#-ʿ HF+ #ʿ # 2# H8J ʿ #J +F ʿ
2 8ʿ GE8 F+G# ʿ B ʿ _

: F Eʿ Eʿ +E# 8 ʿ +8 # +F ʿ ! ʿ FGF- c #ʿ 8 ʿ #G F-ʿ 8+ ʿ F-SF8ʿ Eʿ J#2#F ʿ
8+ 8 -8ʿ -F ʿ J8 # ʿ ʿ =8SF8ʿ F22 ʿ 8Xʿ G+8G # # F-ʿ +8 # cJ#- ʿ 8Xʿ SF# F-ʿ
-# #2#ʿ F # #-ʿ +E ʿ 8 E#J #F ʿ FGF- # # F-ʿ + F-ʿ 8- ʿ -F ʿ ʿ ! ʿ FGF- # ʿ I82ʿ ʿ
2#SF 8UF-ʿ J 8 8 ʿ +#G# 8 ʿ + X# ^ʿ =8SF8ʿ ʿ SF I#-ʿ ! J+#< +8ʿ 8 + F+ ʿ 8ʿ --8JF2F ʿ
18++8F ʿ X# ʿ F #ʿ <+ ʿ P E# GF-ʿ # ʿ # ʿ ʿ ʿ ' ʿ +!ʿ 7 !ʿ
ʿ ʿ 8ʿ F J8 ##ʿ ; ʿ $ #1#J F ʿ F22 ʿ <+ ʿ 8GF2 + ʿ F ʿ H # F-ʿ 1 + ʿ
G8+8 ʿ F ʿ < 8 ʿ 8Xʿ J8 ##ʿ ; ʿ # 8+#- ʿ E c-ʿ $8+FG##ʿ ʿ $ #1#J -ʿ AE ʿ ,ALY
- # F ʿ +#8F 2# ʿ H F-# ʿ ʿ +#8 2# F-ʿ JJ28-# ʿ JJ#E8 2#- ʿ 8E# 8ʿ ! -# ʿ
SF#ʿ ! ʿ # ʿ ; # + ʿ ʿ -8ʿ -J+< ʿ 2# ʿ F2# ʿ 8 ʿ -8J## ʿ # ʿ 8X#2# ʿ - J# -ʿ JH -

Jʿ B,MCʿ 7;(Nʿ O=28 45''ʿ =?49ʿ .4 72(71 ʿ .=11 ʿ =!ʿ ʿ 4 ʿ .454?'; "ʿ 1(5458'8ʿ =5;= ?'(ʿ .4 72(71 ʿ ;71ʿ
5= '8ʿ 45(?'ʿ ('8 ʿ =ʿ !

H F# #<8 M $ JH #- JH +F <+# F- # <+# + 8 Q 8- 8 ! #8+
< K 8 K # J !8EF2## 11#28- ## 8 $82 G## # # 8+ # +#8 8 F Y# ;#
-#J <28X8+8 2 G8 8 EI8 F ! $ +#J## # # 8+ #

5D, # + u, R!

' 5D, $ +FJ2# -F / / # -FJJ8--# 8X & 2+# Ew
2 #Jw ._B -< # + XXX## @ + EF # - 8X G8 #w 8+ 1+ 8+
8UF- F 8+# - 8 -8 2 H SF# - G8 #w 8X + 8+ /8E82 #
8+ 2G E## 8G#- J#w 8X /8E2# # 1#2# 8< #-

._B F 8X E J wI J - J 4 M G82F- 2 w #
M # J + # #--F- 8- F < # - SF 1+ +8 8UF- G F SF8
M G#- E#2#G8 # +8G8 +E# +8 <+ F # " +E# # #- 8GF 2# + -# #
M I#E8 F+ 28G8+8 Q SF E -#J # # F- 8+ <8+8G# @)+ #228 " F+ # 1#2#F-
8 E8 SF ! 2 ## UFX #G8 JHF #E - F 8 +8G I# E
F F-SF K K @ # -F2 #J + 1F# .CB
E - +818+ J L ! 2#F #E <+wE#X#--8 #E2F 8 +# F- 1#2##-
8UF-) + H +F 8 E#F E#EF I82 & G +EF 8# -FJJ8--F+ -8E E8 B
H " E#X#--8 M #J 8- -F<8+- 8- 8 8X < - 8 +8G+# F+F- 8 1#2## 8UF- < -
M 8F +8G F !#J # < - -F#- 8 < +# F- <#8 8 E# <28 -F
M 8 G7 # 8 E#EF- 2 G < - 8 < +#- # 8+I 22
M # +F $ ' g(# 822 +FJ#E # -F & G +EF- I8+ # ! X # 822#J
M # - + G8 # 8+18J F- 8- 81# E#F- F 8 8 # 8 8 #F- 12 IF- < - < +8
M # +8G F -FJJ8--# Q
E8 <+w2#F G8- + .L F # #G8 JH ! <+ < G .C '
M , # 8+F 8 + E 8 ? # SF + +# n 8 #Y # 1FG I8+ F F+
M #E F SF8 SF 2# 8 # 182#>U + 8 J J8-- I#J +# 8- QW40& GH +EF # <+w2#
J J8J#Ec--8 < - # F ! 2F w ++ + !J 8 #G8 8 F-
SF# GF 8G*- #E c 1#2c## # +# E# 8+-F 11#+ KAA , Y
8G 8 #E H # 8- ! EF- &+ 88 8 -#- <+ <8 J#I# 8 8 - 8+#F
&d+8 -8 # 2 # .L JF# 11### #E F- J # 8 ! 2F E#J 1F#
! EF- #- #E 1#2# #+w# 8G8 # 8+ #w J I8 8+F SF8 <+w 8+ 2 #8 -8-
$+ I# J# +F# # 8+ #w 8G8- <#-J <# 8- $+ J8+8- F < 8 8X J #- -8+I #-
F-SF8 E 8 < + G # '& 822 .A 8 8X /2 H8+ w < B_.
#- I8 #E F- # F # 8 # F# - 8 E +# F 8G# # 8¤aZ

B C (554 " O':4 5';71 (55" - 4?(5= (75=8 99' ':7' ((2= 2 ('5" 4;45 '= 48 9992 2(34 4'<8
999'' (: (55= - (? !) BTT!;4'" ?551(G18 ('54 '5 4 @ 4 (5 # +

_K ! $! $ /ˁ ! 6ˁ / -(ˁ 8 (

#E8 S 8ˁ - 2F ˁ $+# J#< F-ˁ 8 # 8 # <#ˁ #=8ˁ J +F ˁ ! ˁ$ +#8 ˁ !J+#< +8-ˁ I8 8+8-ˁ
! ˁ$ +#8 ˁ; #J# #F ˁ E8ˁ 8G# ˁJ82-# FE# 8ˁ /8+G -##ˁ < - 8+# ˁ I8 + ˁ ! ˁ1 ˁ
% ˁ ˁ $+ 8E8J8-- +8-ˁ 8 # ˁ #<-#F-ˁ 1F8+8ˁ + F-ˁ 8 ˁ /8+GF-#F-ˁ 1#22#ˁ /+8#
J ˁ ˁ + #ˁ 1#2# ˁ #-ˁ F< ˁ 1F# ˁ <+# ˁ F+8E JH ˁ JF#ˁ G8 F# ˁ F+J8+ JHF ˁq? Jˁ
+J ˁ 8G8 ˁ # 8+ # 8ˁ < - 8 ˁ /8+GF-# ˁ 22#ˁ " F2 ##ˁ 1#2# ˁ SF#ˁ 1F# ˁ <+# #ˁ +# #ˁ 8 0ˁ
- +# F-ˁ F#Jˁ G8 F# ˁ /8EH2# #E#F ˁ $ +8 ˁ ! ˁ 2F 8@ + ˁ 8 ˁ /8+GF-# ˁ <+# #-ˁ
8G# F-ˁ !J #-ˁ 2 # 8ˁ -FJJ8--# ˁ 8+ #F-ˁ) # ˁ ˁ 7 # ˁ SF#ˁ EF -ˁ 1#2# -ˁ 8ˁ
/8E82 # ˁ JH E##ˁ F#GH 8E ##ˁ 8G#-ˁ # 8+ # 8ˁ 1#2# ˁ 8 ˁ +#F E ˁ - -J8<# ˁ
G 22F ˁ 8 ˁ " F+ F @& G +E ˁ $ +#ˁ -FJJ8--# ˁ SF + F-ˁ 8Xˁ / # ˁ ˁ
) # ˁ JF#ˁ -FJJ8--# ˁ? ˁ 8X ˁ1+ 8+ˁ 8UF-ˁ 5 , ˁ ˁ) ; # !ˁ FUF-ˁ
F ˁ +818+ ˁ #G8+ JHF-ˁ Eˁ ˁ-8+-8ˁ ˁKK @!8X F-ˁ 8Xˁ 1F# ˁ / ˁ ˁ/ # ˁ
SF#ˁ " F+ ˁ-FJJ8--# ˁ ˁ#- ˁ ˁ+8G 8ˁ ! " 2F ˁ ˁ # 22 ˁ G ˁSF + F-ˁ 8 ˁ
+ #ˁ 8G#-ˁ 2 # 8ˁ 8Xˁ +#J ˁ 1#2# ˁ <+ 8< -ˁ # ˁ +# # ˁ 8Xˁ # 8+ # ˁ I#) I# ˁ
F ˁ # ˁ E ˁ ˁ J ˁ_ @ 22 ˁ $ +FJ2#ˁ -FJJ8--# ˁ ˁ ˁ 5 ,; ˁ E8ˁ
SF ˁ # ˁ<+-8-8 # +F ˁ -J+# # F- ˁ SF#ˁ +8G I# ˁ #-ˁ XXX##ˁ ˁ ˁ._B
&8ˁ #E ˁH Jˁ 8E ˁ # SF# ˁ Eˁ ˁK ˁ ˁ ˁ J ˁ B@Mˁ !E ˁ 8Xˁ !J +F ˁ? ˁ
Lˁ 8 ˁ , ˁ # F-ˁ) H821+#E#ˁ 8G#-ˁ h+E HF + +F ˁ # F-ˁ I8 # ˁ
Mˁ J + ˁ 8F ˁ JF ˁ # 8 - ˁ 8 ˁ 1 + #ˁ 8X8+J# F ˁ -8E ˁ JF ˁ < FJ#- ˁ I#J F-ˁ F1FG# ˁ) !c0ˁ
Mˁ SF#E8 ˁ # ˁ 2 J ˁ J828 8++# ˁ SF#ˁ E#J# F+ˁ) # ˁ #ˁ8 ˁ &8G-##ˁ 2 <#-ˁ #-ˁ <8 8ˁ
Mˁ 8UF-ˁ J -F-ˁ 8- ˁ 8X8+J# F- ˁ ˁ SF ˁ 8 # ˁ <FG ˁ H8 2E ˁ 1+ 8+ˁ) H821+#E# ˁ JF ˁ
Mˁ #ˁ #2# ˁ SF8 ˁ#<-8ˁ EFJ8 ˁ 8X8+J# Fˁ <8+8 < F-ˁ 8- ˁ 8SF8ˁ 8Xˁ 8 ˁ 8 < +8 ˁ SF#-SF ˁ
Mˁ 8GF ˁ!J +F 0ˁ # ˁ +# # ˁ EI8+-F-ˁ G8 8 ˁ G2 +F ˁ F-SF8ˁ Eˁ H Jˁ E#8 ˁ
Mˁ # ˁ <+ 2#F ˁ I8 #+8ˁ FE8 Qˁ 8 <8ˁ F-SF8ˁ Eˁ ˁ_ ˁ SF ˁ 8E ˁ #- +c ˁ 8+ # F- ˁ
Mˁ !J -ˁ? ˁ8 ˁ ˁ-F#-ˁ J 8 -ˁ 1# # F- ˁ #H#2ˁ J + ˁG8 8 ˁ G2 +F ˁ
Mˁ # -#E# +F ˁ 2# - ˁ F ˁ1+ FE#F Qˁ -J+# # ˁ ˁ. ˁ J ˁAB
$+ 2#F ˁ H Jˁ &8G- - 8 ˁ <+-82#F ˁ ! X F ˁ <<822 #ˁ #G8 JH ˁ 8 ˁ 1+cJF ˁ
H821+#E#ˁ 1+ +8 ˁ SF8 ˁ 8E ˁ H8 2EF ˁ I J ˁ ˁ 82F H ˁ 1#2# ˁ 8 # ˁ # ˁ8 E8 ˁ
<+ 2# ˁ JJ#-F ˁ 1#c+
8E F-ˁ ## ˁ ˁ -8 #-ˁ _B ˁ I82ˁ _C ˁ # ˁ 98 #+# ˁ 8 ˁ <FEˁ / G/ ˁ !ˁ
JJ28-# ˁ ! ˁ # + #ˁ -8<F2 -ˁ 8- ˁ ˁK K ˁ J -8 #8? # F-ˁ # ˁ ˁ #- ˁ JF ˁ % # Gˁ
JH ˁ 2ˁ 2 ˁ 8 ˁ 8 H#) !FJJ8--# ˁ 8#ˁ ˁ 8 - ˁ -#I8ˁ JH E#F-ˁ /2 IF- ˁ
#E #ˁ 1#2#F-ˁ #-ˁ A ˁ 2#J8 ˁ ˁ <2F+8-ˁ SF ˁ X I#ˁ -ˁ 8#ˁ +# F ˁ --8+#F- ˁ < G ˁ .K ˁ
2 ˁ 8Xˁ 1F# ˁ " ˁ !J # ˁ +8J8 # +#- ˁ -#I8ˁ 2 #8W ˁ +8G I# SF8ˁ F-SF8ˁ
Eˁ ˁKAL ˁ ;#E8ˁ # 1+ ˁ ˁK K

, ! - O ʿ ! ! ' /

w 1(ʿ 8 (

ʿ pE!ʿ'Cʿ ʿ !

J !ʿ " !ʿ - #22ʿ ? ʿ 2Y8 hJ #U#ʿ ʿ ʿc ʿ ʿ K ʿ ^ʿ ʿ !ʿ !ʿ _ʿ ʿ ʿ _ʿ ʿ ʿ " ʿ & 2ʿ ' ʿ @ D)JH O #8 ʿ ʿ ʿ 1 $ x ʿ m Y 818 ʿ 12#ʿ 8 8 #2ʿ C $ #ʿ " 2ʿ ʿ wʿ 2 ʿ ʿ E#8#JHʿ y 22ʿ 8ʿ ? 28 D)ʿ 8ʿ ? 2 #s 8 8H ʿ ,4Yʿ EZʿ F228ʿ #2ʿ #ʿ)ʿ M<# 8H # ʿ 8ʿ 2Y 8JD) ʿ " ʿ ʿ _ʿ ʿ J8#8Hʿ ?U*# 8H ʿ 8ʿ h8 0ʿ ʿ # ʿ 2 ʿ J 8Hʿ 8 ʿ qy28 ʿ `[!ʿ # ʿ , Y

9ʿ!" !ʿ e! ʿ q2)# J ʿ 2F ʿ Hʿ 82 0ʿ 8 8Hʿ 1#2 ʿ ,(Yʿ ʿ 8H ʿ JHʿ 0ʿ #1ʿ # F#1##FI4Jʿ ʿ H #<<<8ʿ _ ʿ q<# 8 ʿ) F#<<8 ʿ 1 # 82J J # ʿ m2 ʿ H ?m<# J < 8 ʿ # ! ʿ fʿ > ʿ I2 ʿ #<<<8ʿ I 8J#' 8+ r ʿ #22ʿ U) F#-H8ʿ , Yʿ +!ʿ ? 2 2- # H ʿ 8ʿ ʿ ` !ʿ _ ʿ ʿ f@ʿ T ʿ ʿ M28 H ʿ Hʿ II`2F #

9 ʿ !ʿ ; # ʿ 2 ʿ U # 8 ʿ

9 ʿ " !ʿ G 22F-ʿ -ʿ 8 JH +8 -#-ʿ #F+ʿ XJ#ʿ 8 #-ʿ -< 8ʿ $+# J#< F-ʿ I 8+ ʿ -F#ʿ ʿ . ʿ 8 ʿ # ʿ 8 -8 ʿ 8 ʿ Xʿ E#8 ʿ I #ʿ E ##ʿ SFc8 I # ʿ , Y

$+ 82#F ʿ ! 28 8 -8 ʿ # ʿ SF ʿ H F-ʿ # 8E ʿ 8Xʿ 2#8 82 ʿ G #ʿ , #+ 8Yʿ I#J F-ʿ 8+ ʿ 8 ʿ # ʿ <+ 82# ʿ #- ʿ 8 I E-# ʿ ʿ 22F-ʿ 1#2#F-ʿ 8EH#ʿ 1#2##ʿ #+8# @ $+ 80ʿ 2##F ʿ F#20J 28 -8 ʿ # ʿ SF ʿ / # JH Eʿ 1#2#F-ʿ 8E #ʿ I#J +ʿ 8+ ʿ 8 ʿ 1FG# ʿ / # JH ʿ 1#2#F-ʿ &8 #ʿ +-ʿ n ; ʿ 1#2##ʿ 8EH#ʿ 8G#-ʿ J#88 ʿ , Y

9 ʿ " !ʿ : F#8-ʿ +# #ʿ 2F 08E JH8 0ʿ K ʿ -#- ʿ 1#2##ʿ 8< #-ʿ / # JH#ʿ +# # #ʿ 82J 0ʿ H G#F-ʿ 8Xʿ #ʿ / # JH+ JH +F ʿ # ʿ 1FG ʿ I 8+-F-ʿ 8- ʿ h2 < F-ʿ 8Xʿ " + +# ʿ I#J +ʿ 8+ 0) ! # 822F-ʿ -ʿ G8 #28 -#- ʿ , Yʿ 2G E#F-ʿ 1#2#F-ʿ 1# -# ʿ 8Xʿ # 8ʿ +1FF-ʿ 8- @ / # G8 F-ʿ 1#2 -ʿ 8EH#ʿ #G+#ʿ 8Xʿ # 8ʿ ,+8G Y

9 ʿ !ʿ FGF2 # ʿ 2 #0 # 8E ʿ ʿ I#+ ʿ E8ʿ G8 8+8ʿ -F ʿ SF#ʿ E#J F-ʿ 8- ʿ 4ʿ K B

BJCʿ Kʿ <7 ' R =8ʿ 47(8' !Qʿ 3 =5!ʿ ; = !
B Cʿ 448 ʿ = : ' 78ʿ . 4 '(ʿ =55(; '(4ʿ 5ʿ 3 =5!ʿ ; = !ʿ B Cʿ 48''5 ʿ @2= (ʿ ' : !ʿ (ʿ e
a ʿ Mʿ ' # , ʿ @8!Qʿ 3 =5!ʿ ; = !

B Cʿ Kʿ 55=8ʿ 5(58ʿ -!Qʿ 884 ʿ @ ʿ ʿ 4 ʿ @!ʿ M- !ʿ ʿ #ʿ U
B, Cʿ . 49ʿ <5' ʿ =55(; '(4ʿ ʿ : '8 '(558!ʿ %'?4ʿ 85@ (ʿ @(!ʿ - ʿ 5= !ʿ !
B Cʿ (7 ; (ʿ ?48=5 !ʿ 74 ' 5 ʿ (5ʿ '8ʿ '54G2(8ʿ <''4 ' ʿ ! =25 1 : (5< ('8 4 ʿ 1 4 1 = (58ʿ 8(4;72=ʿ Yʿ (ʿ =5(!ʿ =1 (22ʿʿ ('8 4 ʿ <5' ʿ . ʿ ʿ @ ʿ 24 1 '5 ʿ @!ʿ s !

_C   ! - 0 ' ! ! ' / (

! !

" ! ' '# ! ' ' p' ' ~ 2=;3bU5'
75!' ;'5!' ~)

4;7' ' 2'-34' ;4;7' '@@4;;' ;4;7' ?' 54@;'

% ') +

j 1 -' =2' #U'5' 554<;3bU' @= 5' :5' 2=;:bU5'
P':5bU5bU!

; # !' _24PbU _JUbU'54 =' =5bU22' 5;' "7&'
':354' r@ :@75' 2=;:bU' L41 '8:4!) U24K
- bU5 ='5bU2;bU' =5bU'22' -7 3' :'5:' Z'
:BJ 4;3-bb 2:'24' G =5-'754"*; @'Z) ' ! ' f'

:7' 1z'@;' ' ?< ?'24&U
=' =; ':3' ;'7'';:4' ;7< :4!
=5'(2" <= :5' Z24 :' U14) '
`24:<" ZJ U '@=' :" "7':54!' BDC

" bU2 Z24:bU' G2='5!' !' 3!' 27
@bU';3?'" BUC' 54';' 27 '5' Z' Z24 3' :7':3" D !'
:!' < bU'54' Z' 4@;bU' !'!' 3' DZ bU'54' '5;' G24'22'
1:<7':'5' 'bU' ;=;bU' =5' =5bU'22' ;457U' '
!' ')E # 'f' Z24:' L' '54',4Y' < '
=5bU'22' ;=5' 14' Z24 3bU!' 7' ;45' 7U;:?'@'
2" 115' ' ' =21 #5' '5;' 241 54' !G!) '
2 '@@45' <Z'45bU D=';34;

#2 & > ;# V ' ' !' A

, ' 9 ' !' .' !' " !00000 0 JH
T`} , '4?" !' ;' , ~b , ,' $ ('

) ' # 8 ' 8J8 +#F-@F E8' E#J F '
8- @

:F#E' I 28' 8X' SF#E' I 28' FE8X@'
:F#E' < 8- -' $+# J#<F ' f
F #1#J#' 2] #' # 8E 8@ JJ#- +' 1F#'
JH F-' 8+J8 +###-

FGF2 # ' 8EH#' !2 8 -#-'<8+' 22F '
1#2#F ' !F 8#' E' 2# FG' 2 JF-' !8 E#E8'
8EHF-' "F- ' J 0 2F F-' 22#' &F20'
J#I J#-'8' 8 HG)8 F-' #28 -#-' IF2 8+ I80'
+F ' 8F @)F E8' E#J F ' 8- @ ' 1F#'
#E' # ' +8' <FE' FI8 8-' < <F2#' +#
G8+#@ 22F-' JJ#E# EHF ' !2 S -8 '
@ EHF-' !2 8 -#-' JJ#E#' !F 8F '
22F-' 1#2#F-' !F 8#' < -8' JJ#E#'
EHF ' ' ,#8'<#2 -F Y' &FJ8 ' #0'
/ 2G# +F ' SF I#-' 1F#--8' -F ' F 82'
1#2##' F ##' 8' 8EH#' 12 I#' 8G)-' #'
#8' #'8' #' #8' +8G# #-' 1#2##'
22# @)#' 8G#') G ' ' 8 E8 '
22 ' 8 E8 ' E#8' SF ' UFGF2 F-' 8-'
8EHF-' !2 # 8' # F-' 22#' ' 1#2##'
8EH# @ F0J8 0 H +' 8X' # 8'
F-' 8- @ 2 F-' 1#2#F-' 8 # #' SF#8I#'
-+8 F-' E8' 8 E+ #JH8' SF#8I#
' ''''! ! %'!' F+#J#F-' + FF-'
8- ' ,BY
9 ' !' $H J -' +8G< ' #-' I### @ '
$+ 2#F ' !2 H+ -' #' SF ' ' ' 8 G

B C 2'?41' 4 878' 49' 3 =5!' ;= !)
#' $' # #' ' # O ' - $' D' #$ '
'# $'! ' O! ' '# $' $
B C `$'. '
BJC' O" 4 878' ?4877'3';''5' =?';4' ' 49 (5'(7 41''5' 3 =5!' ;= !)
'#' #' ') ' -# ' # ' O'
! ' '-' 7$ O! ' '! 7' '
B C' K' # "$' ' ' ' - B' 3 =5!' ;= !

B C' 55=' ,'?'41', ' = 41:!'=;;'8=' (7 ';'=' 3=;(8' 1@X (' ' 78674' (?' (55!' ' 67=' (:' O4 (;2'='
'5 4 <4; =8' 48 !' 3 =5!' 249! 34=@3'2!' (72!' '(;!' ! Z!

A ʿ Uf ʿ @ 1# F# ʿ ʿ
JH ʿ m ʿ 2 # H #8 ʿ ʿ J2# F###ʿ #8# ʿ #ʿ
F)*#ʿ D)8 8<JJʿ ?22#I J # 8 J ʿ + , ʿ
+ !ʿ 4 !ʿ ʿ

D)< ##ʿ 8 h8<8ʿ I48 2ʿ -2 ʿ -28 0ʿ
4 1 J # \8 8 ʿ U?8 J ʿ # 8040ʿ
ʿ 2 ʿ ,eUʿYʿ J8 ʿ hF2ʿ ʿ <8 JH@ʿ
U ʿ < H 1# F ʿ 8ʿ J @ʿ
h8ʿ ʿ ʿ #I#228J ʿ 2 1 ʿ !ʿ
U;2 h ʿ #+ ʿ 8 J ʿ # 8ʿ JHʿ ʿ)H ʿ #Zʿ
)JF # 8ʿ +9J @
= ʿ # ʿ &K# ʿ # /! / ʿ 1ʿ ʿ ʿ ʿ
J; bU:3)
W ʿ # /Kʿ # / ʿ (! % # ~ ʿ # ʿ
3$u ʿ 34 /! # ; ʿ 3 ; ʿ ʿ8ʿ Z ʿ [/ ʿ ʿ
"ʿ &K ʿ ʿ i ʿ ʿ !ʿ ʿ ʿ
* 4:3bUʿ * 22 '5w
* 2ʿ # %%/ ʿ .C ʿ # ʿ ʿ & ʿ
&K ʿ #ʿ ! ʿ D % # i ʿ .C # ʿ
! ʿ !ʿ " !ʿ ,IIYʿ (< # ʿ ʿ ʿ ` !ʿ
2 ' 345!
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! + F-ʿ ! E8+Gʿ ʿ -8 # 8ʿ E +hʿ #22F- +# ʿ
+JH#0<+-8< -# F-ʿ ! 8 8 H8 -#-M@ ! # 8# ʿ
ʿ 1 2- ʿ J ʿ #-ʿ 1F# ʿ SF#ʿ G2 E# ʿ ++8< ʿ
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& 8ʿ SF ʿ #228JHF-ʿ G8 #8 -#-ʿ J8J# # @ʿ
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1#22#ʿ JH#ʿ 1#2##ʿ F+8E G# ʿ ! 8Eʿ ʿ I8 0ʿ
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8EH#ʿ 22 # ʿ , ' Y
F-ʿ -+8 #ʿ H #-ʿ 28 ʿ ,# ʿ 8 ʿ
##8 -#-Y@ 0 # F-ʿ 2 cʿ 1#2##ʿ 8EH#ʿ
8G#-ʿ -- +# 8@) 8EHF-ʿ 22 # -ʿ +8G ʿ
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1F# ʿ G8 # 8 G4OX
9 ʿ !ʿ : F#8-ʿ ,# ʿ8 ʿ # F-Yʿ +FG ##ʿ 0ʿ
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B Cʿ Aʿ ʿ" Gʿ : =5!ʿ ; = !ʿ &
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B-Cʿ ; ; 248'(ʿ 48 ʿ '5ʿ 4 '=54ʿ ?4ʿ 0 ʿ . '5842(; : ʿ '5ʿ A 48ʿ 4 5458'!ʿ =2 (5 ʿ ; (ʿ @!ʿ , Zʿ 4 ʿ , , ʿN ' (ʿ ('?=;'
!, ʿ @!, !ʿ @1 P (7 ʿ '5ʿ '8 (ʿ ' (ʿ 1 = 8ʿ (5?7:" ʿ #4 '8ʿ = 268ʿ (45'(4ʿ ' 45 4ʿ ('?=;=!) Kʿ (5?7:3ʿ
Kʿ = ;'?' ʿ . 4 41ʿ 0' : 4 1 'Aʿ 4?51ʿ 'R2'5 1ʿ 55" 4; : ʿ 4 ʿ 1 (9'1 (1ʿ ; A?4 1ʿ = : '2'71ʿ 0' : 4 5'Aʿ ; 71ʿ 4=ʿ <4; ' !Qʿ
'1 = ?!ʿ @!M Z!ʿ r
B Cʿ ʿ ; =A =ʿ 65=?(5"ʿ $ ʿ " # ʿ ?48; '@ =8ʿ <7'884 ʿ '5?' ; (ʿ ?'='5(ʿ 4 =8ʿ @=454ʿ '1 @454 (: '24!ʿ ʿ ; (1 '5(ʿ
'5 4 (ʿ 49 (45 ʿ @27 (ʿ 49ʿ '@8=ʿ ; =5 49 =ʿ 49@2' ; (5ʿ @=8845 ʿ 65Aʿ 1'54ʿ =@4ʿ ?=; '88'1 = 71ʿ '5?' 45 ʿ 7 ʿ 42ʿ
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'f' !' 2YD)8JD)# ' 8' 9#U##22' ') ' ,_ .2 D)'
E ' ' '2 ' '7 !
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D)Js#' +D , A /' '% ' ! ' ! , !F
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M 9 ' !' * ' 8JH D)<D)# H' 8'
m ' 8##8 #2' HF# 8' ' h 2# D) 22' J'
6 28 HD)' Z' +F) #22' .D)' ' ')
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K ' 9 ' !' 9 <1' #28h2 9)' 8' ' I2# H'
? 2#< F) 22' _' D)' ' D)#<JH8<' ' ! # ! !
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2=' : " ;bU5 :bU 1 P' =@'9'5' 2= ; 3' :bU1'
:74' 1' 2= ; 3' : ' 3=@:bU 'o ' ' 'U2 ';3'
s!24: :?' 1 4' =2 bU'
F D) D) ' D) ' D)#<' JD)<D)' < ' F JD)<
8 8' ' J8<' J<#22< ' J<8D) J<8' #'
2= : 3=' ,~bJ :bU~5!' +

I8+ ' XX#I ' ,_Y@ # F-' 1#2# +F ' 8 #'
1#2##' +# #' # ' F # 8 ' GH w' ' 1#2# '
+#-' -Fw ' <+# ' ' $ JHw ' ,? Y
" G +#F-' $ < ' #G ' I# ' E' & ' ,LY
9 ' " !' +-' / # JH+ J #' ; - +#-' 1#2##'
E #' JJ#-#' ' $#J #- ' 8 ' SF#8-' 8EH JH#'
! # # F-' # 8' F-JF-'F ' ' 8 -'
%' E#8 ' #X ' -8<F2 F-' 8- ' # ' -#2#J ' $8 +#
9 ' ' JJ#-# ' ! 8JH F- GH#' 1#2##' " + #'
8G#-' 2#8 82w' G # +F ' <8+' & 20'
E#+ #' 1#2#F ' E # ' 8 ' +-' 22#' H - w'
+F + 8' 1#2##' & # #' JJ#-#' ' 8< # F-'
8 H##@ : F#8-' FGE JH#' #' 8 ' 2F) ' 1#2##'
' JH## ' , Y'
9 ' !' +-' 8EH#' 1#2##' 2G#' 8 G #-'
+G# 22# 8' 8 ' + H8+ +F ' # ' <8+8G+# # '8'
2F 8 -\ ' E8' SF ' E#J F ' 8- @
8 <F-' 1F# ' SF ' J2 + ' 1F# ' SF ' JF-'
EF +F ' F @
' I8-' SF ' #22F- + I8+F @ -8E'
8X' 8EH ' 1#2# -' 2G #
' JF+ ' #-#' SF# ' - +F ' #JF '
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: F -JF SF8' 2 FE8-' J 18+F ' < <F2#' # '
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B C' %'?4' 87@ (' @(!' Z-!' J' 4?3(5" =:' 71' 4<4 p' 884 !' (?' ' P' (1=' 84 (2' @454' ' 4'5' / ' / #'
* 5(22" <'2'=' . 4 5" '5 (8= 4 ' @=8 ' (5571 ' 42' ' 145848' ?4<75; =' @ ' 4?(5" o2'78' 87; ;488' '
(55'8' 9 '!Q' '1 = ?!' @(!' - ' 4 ' 55(2!' 2 !' (55!' ' 84 84' ;=1!' !
B C' 1@4 (! ' ' <' ;(8' (' ;A8=' (7 '2'=' (55'8' =; = ' (?' (55!' !' !' ?4' %4 !' 48' ?(48!
BMC'] 4 = '78' !' = :' ' ' (55=' ' @=8 67(1' 49'884 ' ; ;21 !' (5!' ' !' ' ' ?'4 :!' s ' =(5!' '(;!' '5' %' (' !'
] 4 !' (@(4' !, ' ;!' , ' 4 ' ! ' ;! !) 4 78' '(;0'] 4 = '"' <(1'2'('8 ' ;71' 67=' 67(7= ' ': =8' '(2= = !'
?'8@7 (4 (' 7 ' '5' @ (4?'; (' ' (' 4G78 ' ! ' ;!' M!) =5 (5'5" '5' '884 ! 4' = =5(' <4 4(' (5 =:(? ' ;!' ' ' -'
7 (= " ?4' 4(?!' ;= =5(!
] 4 84 78' '5' @4 4' ?4' G7 4' 4 ' 1=<4' @ =3' :45?" 2' : =8' 1 (2=8 ' ;!' ' '567' ' !'] 4 = '51' =1548' 2' : =8' 67=8'
3(:4 4' @= 7' ' " ' ' ' ' ' 67'(' ' : ' ' 5 ' ('55 ' 1=2 (' 5((5 7 ' ?4' 85@4 8 ' '=5' :78' ?=2= 71 !' 4?'
85:G75 ') K' =' ?4' :(;' 5((p=54' (8845871' 1471' 878@45?=!Q' 5 =5'5" (545' '?' (884 45 '8' '5' 871 1('
@(4? ' ' !' ' ;!' ' ' 49' =(554' =1'5';=' (?'5(24' (7 3= ' (41' (??7;' !' 5 =5'571' '5' :(5;' 41' ;' d '
%=88'78' ?4' O '8 !' (!' ! ' ;!' M' 4 ' =(5!' 2:!' (: ';'58' ': 2'= 34;(' (!' !' , ' ! ' ;!' !' 2'" (545' 7 ' <'(:42&
2z`5' 4G';'75 ' 4 ' (L2458' '5;4 (1' 4884' <7 4 7 ' '5' '; '5('=!
B C' 7 '?' ' 8' 4' =27A' =:' 71' 4<4 Y884 ' (?' (55!' ' @(!' ' '!' 55(248' 2 !' (?' (55!88 (' ! M!

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> ' #22 # ' 8' F F2#28' ?y2 ' 2Y8 0'
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s;2D)82F ' 8' 2YDDI8' D)# ' _' 1$ DDZ'
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W !',1Y
9 ## 7 !' F' ' W F4 !' ' 9#<J 8'
' , !' 2 #28|F ' '?y22 8'
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' 8#2 ' !' " ' !' ' '?28 ' m2 '
_'_2T|'2D## ')D)8 9 'A2 '2#I #1

9 'U' _28|H' D)#<' H 8D#JH' 8' | 0'
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28 F<' 8' 2 D)#y# 'q !' J#2#' 2DD8 H'
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F-' !#22 #' 2c #' F # #' #-' 8 0'
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2G #' & 28 ',#'8'J -J#Y' 1#2##' /# JH #@'
/# #-' H+ #J#' F-8 ##
9 ' !' /F2 # F-'8-' 8X8+J# F-' 2#E#-8' <
JF+ ' +JH# +F ' 2#8 82 ' 1F2 # 8' 8+
+# #2#' # F-' 2EF# #')1#2## 2# 8#' 8G#-'
GH 8' : F#8-' 2 c0 2 ' 1#2##' '!822##'
' 8 #-' -F ' I#' # 8 ' 8EH#' <#2 -#' 8'
? 8E#' G8 #8 -#-' 8 F-' -' #-0'
+8 -#- ' ' ' , ## Y
9 'U' 8EHF-' #+E 8 JH' 1#2#F-' & 2E#' K A
8G#-' 8 2#a' # ' $+ 82#F ' EH a'
G8- F ' ' 8 GF-# ' 1#2# ' 2 #' # ' SF '
J8J#E# ' 22F-' 8+ -' +8G#8 -#-' 1#2#F-'
8E#' !# 8@' '
F 8-' # ' I8+ #J8' EH Ha@&FJ +# F-'
' F I 8 F #-' '<+ 1F#
JJ#-#' -F 'EFJ8 #'UFX '$8 + ' F #0'
8 #
8+18?J #' 1F8+8' G #' EFJ8-' # ' 8UF-'
J#+JF# F
$H J -' + FF-' 8- ' 82J ' +8G +8'
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9 ' W' ' A' !' b (' 'K! ' ' 2 , ' ' T ' "'
2' ,8-# 8+]' E8' - -# ' 8X' 8E 'E8-J+#< ' # F F+Y
' ' ' '+ ' '?, " 'K ' ' ' !'
'K ' ' ' # !' + ' ' ; 2'? '

BJC' 2' 4 ' '5' 3 =5!' ;= !' A' = 8' + ' '! ' ' + -' s7'48' ' ' ' ' 7 ' " (55='
K' A ('8'87A!Q' #!' !' = 8' ! '! ' ' 6' ' # 'Z! ' 6 #
B C' '!'4!' '5'8' =5 '5''('=5'8' 3 =5';" 584:'''7 '87@ (' @(!' ,' 5!'
B'C' %4 878' '8 " 8';'24 7'' 7 ' '5' 3 =5!' ;= !' K' ' ' ' 6 ' $' - ' -#' ') $' ' ' s' '
[[' O '$ ' #'] ' ' ' # O+ $ '# -' % B' J

B C' 27' '71' 04 (;2'" '5' (55=' 3 '8 " '@=545?71 '?41=58 (' 4 ('78' '5' 5= '8' (?' ';4@3= " 4 '('31 '
4 ' '5' =; !' 41@' !9'' ;!' -,' @(!' , ,!' = 77 (' ;=5 45'75' @27 48' (55=' 3 '8 " ' ;71' 1@4 (884 '
(55'8' ' 1458!' !' (' ' ' (674' ' 4 5(;3' '5' (55'8' 04 (;2''!' =5' 1 ' 71 ' ;71' (7; = 48' (2?4' ?'8; 4@45 !'
'171' 04 (;2'" 4<4 =5 ' 55(2!' 2 !' (?' (55! , 'A A' =1 ' ' ;71' ' 4 7(;3= ' 4 ' (55=8' 99 " 4" ':775 !
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e ' ?<### J # A28 J<F# ' A2 E ' 278 J D)###

2 D)# ' D)J D)# @ D#JH D)#1 80 # F-' 2 + ##1 + #E #2#-' $+ 82#F +

28 # ' ' + ' !' ' _' ' E ' # J' +28 8 -8' F #' ! J #' JJ#-#' -FF ' 8

J)# ' ' 8 !' w' 8+F2E' ' J8J#E# ' ! 2 +#' ##2#F-' #' 8X' +# 0

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, !' 1+#EF-' I#J +' 8+ ' SF#' < - 8 ' - #

' , Y

B ,C' @'8 =2(1' O=5= '' 141= (' 4?(' '5' O '8 !' ;42!] 45 '8' 5 24 !' !, ' ;!' M ' 3'8' 4 :'8 ' 49' 4?!' ('' (: ' !' @(!') K' 55=' !' 5; (5!' 5; 999 !' '8' ' '?41' (@(' O=5= '58' 2' 4 (8' 4 '(1' 45 '' ;= = 71 ' 67=8' '5' K' =:84 ('=54' !' (8;3A' 4 (4' ;=1@4 4 (' ' G79 (' 67=?' 87@ (' ?=;7'178' B541@4 ' !, ' ;!' ' 7:'' ?4' ;= '8 K' 67'' O'' 1'(' p'8 / «' ' 5'(51' '@ =(21(1' '5;=275 C' 8=224 4 ' 493= (=8 ' 54' @(7;' (41' 87(1 ' '5' 49 41'8' K' 4 (4' <'5':58' ;=58 ' '' (1 ' 8(@'45 '= 41' (5 '67'8 ' 8' 4' 1=?4 '''8 ' 6' A' @4 ' = :41' 4 (5 ' 3 '8 '' ;;248''8 K' A8 '1 (45 '54 4' ;=5 (' (8;2'(248' =1@5 =8 ' 4 ' 4; 4 (' L5=?(2'71' = '78' = :'8' =5 '<';71' (2'7?' (8;3(' [[' ;424: (45 !Q

4' =3(55'8' @'8 =2(' (?' 4=8?41 ' 4=?41' 2=;=' '567') K' 4?' 4 ' =3(5548 ' 67'' 87;;488= '' 4G78?41' O=5= ' ' K' 4 4 '5=' 87;;488' ' ;71' (?' 54' 4884 ' 424; (8' '5' =5 '<';(71 ' @ =' 4=?41' 4 = 4' ;= ' 45?= ' 4 (8' 4'8 K' 1 (5(' (7; = ' (4' (674' 4 7?' '=54' @245(8 ' ?' 49' ' 4 '?45 4 ' (?8 7458 ' 67'(' =1'5';71' (8;3A' ?'41 ' (' K' %275(' 78674' (?' 99' ' 67=?' (' ';A5(' L5=?=' @ =:(71' 48 ' =@= 4 ' '567' p!' 4;5=5' 4 ' @ =' 42('(5(' K' :A 48' ' 67(1' (@7?' 4=8' 4 ' '8;4 4' ?'?';4 (' ;(45?(' (;' 4@42245?(' '5' 4(?41' '22=8' @'8 =2(' (?1=54 4' K' ;7 ('H) ;5G78' @'8 =2A' @ '5;'@'71' 3=;' 48) '24; 288'1'8' 4 ' !1'8' ' $ ' # ' ' K' 4 ' v ' @'8;=@'8) # ' #) ' ;M # ' ' 4 ' - ' 48:L 4 '8 ' # ' ;A<4 '8674' K' =; = ':78 ' 847' :: (':78' ;= '8 ' O'2(''8' ;3'@ X8:L 4 ' 4 '84 (58' 2=;71' !' 4?'8' @=8 =2';(J' =3(5548U

r' K' '(;=578 ' 4 ' '5' 4'' 5=1'54' 424; =8 ' ' 41' =3(5548' '1';4 '78 ' 4 ' 84 (58' 2=;71' !' 4?'8' @=8 =2';A ' 4 ' K' =3(5548' 4 78' 4' ' =58'2'('78' 4G78?41' @=8 =2';A' 84?'8)

K' ; '@ (' 67A' @4 2(= 48' (?' !' 14'5= 'A' 4 4 '571' (@(1' (??794 55 ' 4 ' 4=' ?4' 3(;' 27;4' 1' (5 4 K' 4;'@ =;(' 48@=58=' (?' 4(' 67A' @=8 72(('<' 4 (5 ' 8'274 75 !' s7':78' 484 ('8 ' 54' ?'(' (5 A' 67A8 '=5'8' ;(2' (' [[' '5?'8;788(' 41 (54 4 ' 4@4 '178' 67=8?(1' = '5;'84' 48 A ' ;=5 (' = 3=?=9(1' <'?41 ' 5= (1' 49' 4 4 4' K' 3A 48' 1' 45= (4' ;=5(5 ;8!' (8;3(' 5=8 71 '25' 67=' '1 1 =2d 48' 48 ' 3 '8 78 ' 54:72=8(' ;(2' '54' 4<7 (5 48 ' 4 ' K' 9' ' 75(' ' < $# ' $# # ') s7=' @'8 =2A' @ '5;'@'=' B@ =8467' 7 ' 4?(C' 1 (5'<48 4' ?4;2((5 K' 4 ' 57@4 '14 ' 41@= ':78' '22'8 ' 3(74' (@7?' 4=8' OA 48' 1' ;== (1 ' 4 ' 5=5' = (1'4; 51' 45 41 ' 84?' 67=8?(1' K' '5' 4'8' 3(;' <7'884' '1@2';' =8!Q) (5;(' 49' 4(?41' @'8 =2(' 87:G75 ' ' ?4' 3A 48'' 42('(5(' 7 5' 4 ' '8;45 4' '5' O':4 5'( ) 4?' @2= (' =1' ' ' 67A' '5 4 '4 ;!' %' ' =; 78' !' 1' 3' 5= d ' K' " ' ' " # B' 3A 48' 1' <7'884' s7((?4;'1(5= 71' O':4 5'A' 4=' A =' 78' 45'1' <7' ' (8;3(' ;71' O4: A'8' % # ;424: (4N' 5= (' - ' (5 71 ' ''8' ;'2!' (55'8 ' 67':78' (8;3A' ?'48' '5' 9' '275(1' '5;'?') 7 ' '5' @@45?';4' 87(' =!' '9!

= d ' @ A 4 4(' ' '5' ' 72=' @'8 =2A' =3(55'8' 141= (71 ' <7'884' 5 '8 ' 41' ?1 (;3(571 ' ' <7'884' =55= 45841 ' ' 27(51 (;5='845841 ' # ' :: (41' <7'884' .=8; 445841 ' 4 '4571' OY45845' Q' 87:G75 ' ' 84' 42'67= 71' 4?48' 42' p 72=8' 5=5' '5 45' 4!' 5 45'75 '' ' (5 41' '5' 55(2':58' O':4 5';'8!' %'?4' @2= (' '5' 4?(' 3' , ' ;!' M' ! ' ;!' , -!'] ':8=5' 5= !' (?' 3 =5!' (9=5 ' @(!' ,M!' 884 '''8' (?' (55!' ,M' '565' ' K' O=;' (55=' O=5= '=8 ' @ '178' 78 (248' (?' .=1 (5((' (8;3(2p8' =:84 ('=541' (?59' ' 7 ' '5' 4?(' ! ' ;!' M ' 4 ' , !' 4?' :A;' 5=5' X@7 5(5 ' 4'8 ' 67A' 3(:4 ' (?' (55!' M' 4' ' (55'(' 541@4 ' 4=' ' (55=' (' (7 45 '= ' 422' = ' 4 ' 78 = ' @'8;=@'8' 5 2= 71 ' 4 ' 49' (2'(' 71' (' (@(' O=5= '=' ' B71' (' 24 =' .=1(5= ' K' (?' ') ' < $ ' ; ' # s' %# ' B' 8; '@ (8' <7'884' ' 4 (8 ' 67(8' 4?(' 141= (' !, ' ;!' , ' 4 ' M!' ;;'48'(1' 49' ' O=5= '58' !' (:' (55=' ,-' (?' ' 4 4 '578' (55=' !' =3(5548' %!' (:' (55=' ' (?' , ' 4 ' L5=?78' M @ '3(:' (' 48 ' ?4' (8;3(4 ' '5' (1@=' 2:= ' '5' =1=5'(' (55=' !

B C' K' 42271' #@ - ' 7:'' (5; '' =;;'8'' 875 F' X<X (5 ' 55(248' 2 !' (?' (55!' A A' ;=1!' !' UU (5; = 71

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9 " ! 2FD) ? # 2FD) 9) 8 # ##4
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9 # ;2D 82J D) 8 ? 28 HD) U JD)JH
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2 <D##<h 9JH q<# +F##-2## 28
U 9) h YDDs 12 #)# 8 2##F)
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9 ` 2F - 2F -0 J0 #- K B
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8- # <+ 82# % JJ#-F- FGH 8 0
-# - 8 V !F 8 8 , BY : F#8-
&# + # [8+ ## #- 2F 0 + +E8 -#-
$+ 82#F / #E G8 -8 <FE $8 +V $ #0
F2# # F- # 1#2## 2 # 8G#-
G8 # 8 JF# -FJJ8--# !F 8<- < +IF-
9 ! - # - 8+## 8 JH 0 K K
+8 -#-
9 ! F- # & 8G-8 E#8 X I K _
9 2 ## JF . + +# F- 8 I -0
*# -F2 8 d1 G#8 -#- ,H E#8 +
-2 EY 8 F- # ET+# 8 @ -SF8
E F J F -#E + - -J+#<-# + #0
J -FF NJ

BUC (55(2! 2 !(? (55! -! BGDC HH 5 3422= 1 =5 R8 7 B P 3 =5! ;= !

5=1 '54 '5 422' 45 48 =5(;3=8 ' (55';=8 (5 = 45848 5714 = , 67" (: q 3' < '?" 494 ;' 7 (@5?
;R 2 (41 4 '=5 1 B575; 48 '(1C 7;'?("<74 4 7 '5] ' (2?" 48; ! (1 : 'A ! ! 0(5; ;A?41 '5 ("
':575 ! 5 78 '5=! 4? ;(2715'(5 7 _ "5= d 1 ' 3 (? 4?(1!
B C 4?3= ''R 6 # ?'; = '5 4 5= 0':4 5'A 8(;;488' + $ ''2'78 4G78 I(55= 58654
(? (55! - 67= ! =1('558 4(; '5 0':4 5'(=:'' !) (42;u:3= 87;;488' $ + (55= -! %'?4
((2= (5 . 4 71 0':4 5'A '5 . 4 ! 0':4 5';(! ! ! @! 75;7@(! @! 99 4 ;=5<'4 (('= 71 ;2'@8'71
':'? @! 9;! ! 6 # 1 \ ! 7 ! # ` #\ # @! -Z 4 @!M Z!
! =271 :(5 '8 . =:'4584 =5(8 4 '51 ;=58 79' '5 (2'((55= 5 " 5= (5 (:'22=5'58 7 (= '78 . 4 !
(2! %! @! Z 4 245''5 58 ' 41 (72! '(;! ?4 48 '8 =5 =:(?! ! ;! '? 4<4 ! 884 ! (?! !
:'' =271 :('18 (55= - / " ;= ' 45?(7 '(5(4?' '= 4 4 4 (67A?(1 (L =2= '(
65':78 @ 4<4 45?78 48 E (5?;2:4 78 67" ;51 =5(;=5845 ' ! (:'2! 55(2!
B -C :'' $ (55= ! , 67= 87;;488' 4" (5" . 4;;(4?"<'2'58!) 8'?= (8 0 8@(2458'8
;2(5' (55= , 41@= ':78 04 (;2'' 4 712 '2] = 3= 71 '5 0'8@(5'(. 4 '8 7 ;=58 (49 ''8 4 :'8
67':78 4 3 = !';=5 857 5 '5;'@' 4 67'5 71 '571 <'5' 5'8" (2'(8 49 3 =5';'8 '5 '571 2': =8
4 :('8 ((58 524'' ! 422(1 '5''8 ?4 ; '@ ! ;;2! 845 ' 3 =5';=5 8'?= " 49 67'5 = '571 2': =
?48; '@ 71 4884!! ! 4? ;=5 (<(; 7 (;=22' ' %=88'58 49 ! 87'8 =@ ' =A 5= A '5 67':78 49 41 ('8 (2': "
67'5 " 4 :(67A '5 45 '(5(4?' '=54 4 '5 ' 4 5(;2'= 24 (8 ?48'?4 (5 (! 7'5 3'2" . X '8 (5578 67'5 78
<7' 4: '8 " , ! ('(5(?4 4:& 0'8@(5! ! '' ;! - !) :'' 8'?= =8 (55= !

CB " ' !

! !
K C

9 ' * ' 8 8 # .??# hD#J Js#D) ' J ' fX'
' ' ' ' n ' ? " ! 22#
-#G2# 1 >(w' D) # < m2D)JHD# R<JH8
#! " !

; # ' 2 D)# ' # 8' F# 2 8' YD)m '
qm$#D)JH#D)JH 8' DD#22 # ' ?A2I h JHD) @'
% ' ' ' 5 =G](~\` T' ?m<8< F D)
8' 2 D)# ' #< ' I2 ' I ; #K# ' 6 28 <E<J#)J2#
F 8#0JD) ' K# ' 2D) 8' ,) Y' ! @

I_ D)H ' #4D) ' H # ' # ' J8D)JH
^ ' 8<JD)' D)' D) D)<JD)J
JHJ' < #)J ' h ' 8< h '
V ' #+ ' J ' 9 ' ' ?m<8< 'D)
8< J#) ' ' JH <##J F# 2# 8' J# 8 2 20'
1 bU5
8J ' JF22# 8' #D)< # < ' <8J
h#<F# #F' <## , ; 28<J #) ' # ' 2D)#J# #F
'J<# 8 ' # ' F## #

9 ' " !' f, ' ?c2 ' q 2J #)#-0 ' #)# -

K L

I ; 2 << <#22#)# ' ; 2F#-8' #28' _' q<# -8 ' 8'
qm<#D)J <D)J ' M28 ' 8 ' I ') F HE ' ?!

_28 ' 8 #) ' ' ' 8 D) EJ J' #D#<
2FJ E#<
1`D)#< ' <8J9# ' #D) D# ' U2# J8 D)#< #D)'
JF J#)# ' # ' F J D)#2'
#2<J9) JH # ' JD) ' < ' J < J #)@J) # ' D) F
< ' J D)

9 I ' 8 G8 F-' " 2#FE 2 JH8 -#-' -'
' A ' -8 #-' -F 8# ' H+#- ' SF#8I# ' , KY'
G 22F-' <#-J <F- ' 8 ' G F-' <#-0'
J <F-' H0-# H8 -#- ' ,# ' 8 ' F # 8 #
8 F+F Y' SF#8I8+F
FGF2 # ' 2G # 1#2## ! F 8# ' # F-'
/# JH+ JH# 1#22# 22# # ' +E J '
8++ -' F-' # ' " 22# ' # F-' /8+GF-##
1#2## 2 # G # 8G#-' #E# 8' JJ#-#
<8+' 8 1 + JH' ' 8-J ' E8' J2#8 82 '
2 # J ' FE8' E#J F ' 8- @0'
! # 1 + 8' I8 8+# ' # ' E F ' 8 '
' 8-J ' FE J# ' # -#GV#- @)
$8J F-' 8G+F ' E +8 ' 8# ' <+ < 8+' + 8 '
/8+GF-##
: F JF SF8' 8 < +8' +8E# # ' I#J +# '
2#8 82 8' 2 #
#-# <+ I ' UF 8 F+' -F ' < 8 ' I# 8'
822 ' <+ -8SF +' 2#8 82 ' 8-JH #
JF ' 2 # ##- ' 8J' -J+#<-# F # 8F-

9 ' " !' # 8+#F-' -' JH 8 -#-'
- 8+# ' ! ' #J# ' , ## Y
+-' ! #22 # - 8+# ' <# + +#-'
- J+# ' 8 ' /# G# # 1#2## /# JH+ JH# ' 8EHF-'
8 E ' 8X' # 8' SF#8I# @

EH' 8 E ' E8' G J 8 -# F-
JJ#E8 2#-' F 8 + 8
& 28 EF ' 8- ' ' 8X8+J# # F-' 82#G# 8G8-'
-F<+ ' < <F28- ' SF -# F+ ' JF-* E8- '
+F ' -JF ' 8 < +8' <8+#JF2# ' SF '
EF 8 ' #2# ' # ' - F2 ' F+ @

B<'C' K' ' #' 6 G' 3 =5!' ; = !

B C' =41 45" =: ' 51' 4 45'5 ' 55(2!' 2 !' (?' (75!' Z ' '!' 4!' (' (8' ; =1!' ' (55=' 1 ('8' , !' K' 55'8' , '
K' ' (4' 49(; '8' B'56" ' ' ' 884 !' @!' M- C' " " =5(8' 75" ' ' ; ' ; (' (55!' ' 42' , , ' (?' : '8 15' =; 1 4578' 1 ' (!'
K' '884' ?' ; ' 5 Q' 4 ' 67'?41' ' 41 (; 358' '5< (' (?' (55 ' , ' 3(: 4) K' %42' 3=; ' (55=' 67'48' =41 454!Q' 55(2!'
' ' 4(?41' 3(: 45 ' (?' (55 ' , ' 24 (4' ; ! , , !

" ' ! C.

! !

8' :4;bU5' U2='" 7 1 7 1 ' P';'7' P='

' ' '(

+ @' -47' 1 4' '24:3bU' !' 1Z !' w'' -' G

E ' s_ F D)F m 8 2#Fh' ?< 8

Y ' 24"%7U :4 7U5 :@4827U&@=:' PbU@2 7

JI 28 DDI@) J' D)m J #<U Jc- ' c! J<8 HD)

bU;:bU2' 7;' ,24::bU' =' b':2'bU'' ' :4'

U7177!

9 ' ? 2#22 8' D)8hD)#' F' F#U J8<JD)# '

_' D#82 F#' F8' qm<8< D) 8' D)8 D) ' _'

h#FJF22D)' ' ' X288 JD#

J<#JH' F)8 8' -) U4)#9J2#' 8' F)< #+#

8' 6 2 #<8D)8H 8' 8J D)' ' ' '

'hD)#<8 D)2 D)# H

9 ' ' 8+#D)8 ' D)<' M2 ' 2FD) E?#<)<JD)'

' ' D) 1#1 #28F D) F8' 2 E ' #<'I2 '

H#' D Y8#22 @0hFFJD) H' 8' D,FD) ' _'

)88+D)F 8' #)F ' _' ?A28K' #8<J @'

0m< #' 8' qmf9)J <D)JH 8 J<#h 8' , !G' ;;!'

d ' ' ' ' <)#hH8'

7 ' ' ' ' ' , '

#A !V /c! ' 82 E 8 ' ' M G'

! ' D) 8' 2# <8 ' 8' 222J) ' 8' 8<0'

D)#22' 9)22 8' F# 8' " ' ' _'

h H F ' <8E8J' J' !@ n & ' '

?!' ' / ' #A !' D) ' 8' ? 28 9) ' 8'

D) < #' h# 8< ' @) ' F 8' 8#J8E)'

@

:F E'-#< F2##2F '<+ 8I 28 ' # +8 @8- '

UF+# ' SF#8 1#' #J8 0

/# G8 F-' 1#2#F-' EH# 8X' #-8'

+FF-' 8- ' E8' SF ' J UFX' 8UF-' E#X# @

' # ' EF+ 8' +8G ' /# G8 # @1#2##

8EH# 8 E # +8G# 8 @)1F8+8 F E T-'

1+FJ # F-' - 2I-8' 1##8+8'1 8JF E ' + 8

H 2EF-' 1#2#F-' E # # 8 ' +8G F '

#-8

9 ' 2#2EF-' 1#2#F-' EH # 1#2## F+J8+0' KA '

G#' 8 ' 82EF# F-' 1#2#F-' /8+GF-## 1#2## R

EH #' 8 ' &#FJF22 ' JJ#-#' -F ' # '

J < ' E + # <#-' #' 8G# 8' J#Z '

F-' /# JH#' 1#2## # + #' 1#2## #+8#'

1#2## !8E 8#' #E' \- ' 2 8+#F-' 1F E +#-'

- 8+## &8++8 -#-

9 ' A!' !8 JHF-' +IF-' -' 2F 0' KA '

18+ 8 -#-' + FF-' 8- ' +-' 8 GF-##

1#2## 2 # G # 8G#-' ' # 22 +F '

&F JH EF-' 1#2#F-' G # 8 ' #18J F-'

1#2#F-' E#' 8 ' EHF-' #8+F @ /# 0'

G# '1#2#F-' /# JH+ JH# E 2 -# J +E#-' # ' J'

8 < +8' J - +FJ ' 8- ' JJ28-# ' -F2a'

+#8 -#- ' /# #' -#E +F-'8 F 8+ +8' -'

'2# +#-' 2 G# +F ', _Y

$+ 2#U# ' # E82G 8 8 -T' # ' SF 'J8J#0' KAA'

E8+## ' EF ' 1#2## # +8 #' 1#2## 2 E#' 1#2##

8+ 2##' 22F-'1#2#F-' !F ##8# I#J +'8+ '

8 '& 2EF-' JF2 F-'JF '8 ' ; 82' # 'H J'

' SF#8-' 8 G8 # ,UFX ' 2# -Y@ 0'

G#F-'1#2#F-' 8EH #'1#2## " F+ #' E# 8+0'

-F-' 8- @ #0 FE# 8F-'E J F-' J8J# #'H J

B ZC' ' '1'1'8' 4' L1=2= '((1'99'2': =8'8; '@8'' 8'?= (8'67=8';71' 42'67'('P@; R:58'4?'?'' 454?'; '5=8'
=5(;2'58' =1!?4' 4 '2' ('8' <=2!' !) ?41'4884' '?4 7'(;' 8'?= 78'?'; 78' 4 ;(= '@= '78' 4;;(= '
65' (5=551'4 ' 4; 4 (2'71' =224; '=541' ;=1@'2(' ' '5475 4' 884;! ' ' 45'1 ' (<<' 1(5' O'541(78' .34&'
1458'8' '5'2': ='?4' L7=?'8' (5 4' 1'224'(55=8'49((='4 '(2'"@2= 48!
48' 48 (8'(1= 71' , , , '4 ' , ' ;=5 4 '' ' 4 543" =?49' =?24'(578''5'75 1'(55!' , !' 5' 55='!' 2!'
(5578'(4 9' !' , ,''5;'@'' ('@ 442'=' \ - ' (5578' , '(:'=:' =' 4 5(" #1 ' ::('8'O''458'8'4 '(5578' , '
(:'=:' =' =5(='!' @@=87'158'' (674'(55=8''8 =8''5'1('54!

" ' !

! J

' = 2:?' '"'=@- 55) -@'bU " BJC

< | J #S JJ)<' D)' J<D#JH

* @'4bU;3bU G3' @'5 ' '@^ ' =5bU'5-' z'

' 8D) ' < 2 ' +# ' 1# ' # ' JHF<D)J'

+@@' #U C)

2 ' < ' 2# #' 8 ' D) # #F' <<#' #2#' J <J#)

_DD#28 <D)J D)' 8' m2####8 9' 8'

2##9)# #' 8' JD)# ' _' A2#22 ' 8' 820'

2D)# ' D)J ' 2# 2F)#<@ D)JH 2## F D)#'

*' ?' !' 2##F) ' # J' JD)# H' D)J D)#<'

FD)#<8' 2D)' 2D) D)22D)JH 8' D)JD)J ' 2YD)<'

2 ' + 8' 8D)22z#

KA ?<8< *#E' A2 ' D)8@ e! ' 8' 2z#)<8

2 ' 2< ##F)J D)' -' 1 # 8 ' ##- m' # G

' I D)J D' , Y' Z' ? B V

JHD' @

1# ' D) H J8 8' U D)#J 0 FD)2D)@

D)<JD)' #F' JD)J D' FD) HD)'

2FD)# 8 ' # ' 8<J' D)#4E H@

) #<' '# E' J ' DD D)

KAB 9 ' " !' ;2 < ' 12 D)# ' 8' 2#*F)# ' _'

2 ' 01J822#) ' i !' .) ')) YE#<8' 8'

28 HD' 222D)# ' ?< #2 8' ?<# D) H < ' F'

' ? ' !' , Y' 4

/ 2FJ F-' +#-' I 2E8' -<28 E8 8- ' 8 ' ! 2'

,#' 8 ' &#8-Y' SF#' 12FJ F-' #- -' 8XJ# I# '

#H#' J F- ' E 2 +#-

E81 J F-' 8- ' / * F-' # ' <+ 82# ' , +*

Y' ' G ' 8+ 8 ' JF* ' -F '

8X8+J# F

F2*8+' JF#' J+# 8-' J E#E#' 1F8+8 ' # '

I #8F2 ' JF ' G '

; 2E8' 2FE# +# ' H 8 F+' H E#8' <FE'

#280 +

F-' 28 + JH G' 1#2##' # 8E## ' 1#2##'

2 # ' 1#2##' G# ' 8 ' 2#2E#' 1#2##' 8 20'

2 G# ' $+ 82#F ' # E -8 -8 ' $+-82#F '

8 GF H- ' # ' SF ' J8J#E# ' 2 ' 1#2#F-'

8 22 G# ' < 8+' " F +## ' JJ#- -' ' G 22 JH '

1#2# ' > JH# ' # F-' 2G #' 1#2##' 8 22 G# '

F-' / 8+G 8#' #-' ##8 -#- ' # F-'

-+8#' #-' +E J #' X< G0'

' F # 8 #' " F 2 #' ' $# J ' 1#2# '

E #' F E8' / # J ' E#X# @

; - I # ' #G #-' F # 8 F ' " F 2 #

E8' +F +' I +F ' <+-82# +F @

8+ F ' < 8 # ' E818J# @

' 1F2 ' G ' < 8 8- -' 8 +F ' SF E '

8X<FG ' 8- ' +X

9 ' " !' +-' #' 1#2##' 2 # ' 8 '

2 F-' ! 822 ' ## @ 8E8-' & +##'

1#2##' 8EH#' 22 # ' / 2 8F-0 / #E EH' # ' 8F#+#'

I F2 F-' # 12#X# ' SF#' J8J# # @

BrC' O " 4 8=8' 8';' 24 75 7 ' '5' 3 =5!' ;= !)

' # ' #- O 0#5 '# ' ' -' #O

' # '1 - '1 O . #' -' ' #' #)

'$ '# ' ' ' -'1 O # '1 #' -O

! '# ' $ ' ' ' - O ' # '$ ' #

B C' K' ' . ' ' ' B' 3 =5!' ;= !

B C' K' 5?4' 1 (4 ' 4G78' ;<4;'5') (' - ' #O '$ ' - ' ') '='5 ' - #' ' $ $ O '1 '

A' . K$ ' . '1 $!Q) 0 A;' '5' 5=(2! 2 !' 4<4 (527 ' (?' (55!' , U! q 84' !' , !

8' D) F" F ' DDI# #8@
* 2'< ' '2 D bU:7:3bU' 4 '4)
D) #' I# ' E#m ' J9JH' D)8#2@
< ' D)## ' D) ' #F'28 8@ ?
_' < ' 2 9)2X) ' # ' # ' # D##2' D)#<8@
#' <' E ' @
2YD)' D)# ' D)#<' E' W D)#2 # 8' JD)#2
9)# ' + # D)h ' $ D)' ' # H D) '
' J8 h' ?m<D##2 8' ?<#D)# ' q<# J) H

#) ' , Y' ?)2 JZ D)# ' f2 ' ' 28

9 ' !' , $ ' !' _28 D)# '
8' F# D) JD)# ' _' 2 D) ' 8' # 820'
2D)# ' ') a' #! !"! ' 8 ' JF'
8' #28' `' 2 "' ' ' # ' , 2'
+ !' < D)J' D)8# ' _' 222) ' # ' '
I D) ' 8' FD){H #2' I2#' D)' ' 22#<J#<' ' f'
s;2 D# ' 8' qm<#D)J D)' 2F< D) ' D) ' ? 2<JF#<

F+' FE X' E#J +' <+ < 8+' I F2 F-' & +##f
' 8 # ' 1 + 8-' 1F8+8' H - 8-
#' FJ#E F-' 8- ' F F-SF#-SF8' 2#8 0'
8mW' 8UF-
$ - SF ' +FJ#E F-' 8- ' 8 +F ' & FX
' I#J +# ' #- ' E' I# E#J EF ' & +#F
E8' 8+' 8UF-' # @
22F- +#-' 1F# ' 8X<FG # ' -F2 8' GF- -8
#' E# 8+-#' -F ' J 8 F-' H - #F
!# F2' JF ' & FJ8' / 2 8 0/2 ' ! 2
I8- +8
#I# -' E #' #-' ##8 0'
-#- ' , CY
9 ' !' F-' 8 8 + -F- ' , LY' 8E F-' KA.
1#2#F-' F F-J G# ' 8 ' 2 F!' 1#2 -' 0'
G822 F#' E' & # F ' #G+ I8+F ') '
#- ' E # #' 1#2##' 22w ' SF#' <+# F-' J+8E#E# '
' +8G# # F-' ! X F ' , A Y' +# JF-'
<F2JH8+ ' 8 ' 22 EF-' + F#' -F @ 0'
F-' 1#2#F-' F 2## ' , -#I8' #2wY' 8X

B C' =' =;4' $ '24 4'- ' '!' 4!' 5(2' (8 ' 5 ' '5' 3 =5!' 4= = 51!
B C K' + -' . # ') ' + ' . ' + - ' ! $ ' ! # #' 1 ' $ #' $# ' % ' % # ' # O '
' # ')

K' ! ' #' '- ' #' O '1 #' - ' # O'
A' '- '- ' ' O + #$1 ' + - ' ' .

' \ 'Z' ; ' ' . ' 1 = '75 5 !' ' ' ' ! ! < #' ' ' ' ' # G@, ' 1 '
A' # ' '1 ' ' ' 'Z' ' ' . B' t ;!' 3 =5!' ;= !' *

B C' 7=' <74 4' 4 ?41 ' 44 =' ?(15(5' ' (1 := 0 ' :4 7' ' 5758' =5(;37i' =25?'458'8' '5' 5 2'(' ?4' 65=' 4?8 '
! ' ;!' , - ' (2 4 ' : : (8' ?4' 67=' 4?(' !' - ' ;!' '4 ' , !' 0 '4' 48 ' ?4' 67=' ' 4 5(;378' 87@ (!' ': 51 ' 8; '@8' '
?4' =;'8' 8(5; '8' 6741 ' 2;3< '?=' . 4 p'@= 492 !' : '' 'G79 (' 4?(1 ' (55=' Z , ' 5' (8 '8' 454?'; '5'8' ;=2' 7 '
'9' # (2!' ; = : !' @78' 4G78' ?4' =X'8' !' 4?'?' ' (: '22=5 ' ; (' 454?!' 884;!' ' @(!' , !
B MC' (' 4 '(1 ' 55(2!' 2 !' (?' (55!' , ' (4 (4' ;=1 !' , - ' 541 @4' ?7=' =2'8' ?42'67'(' ;=5 ' 4 4' (55=' '8 = ' 7 ' '5' f
' ?4' 4 '<'4 ' 248' ?(48 ' !' ' 4 ' ;2'@8'8' 75 4 ' =1548' 7 =@(8' '8' : '248!
B, C' 342:L 3 78 ' . 49' (5 '(4 ' W?4<75; 78' !' !' ' @ ' 178' <7' ' 49' (9=551 ' 67'' <'?41 ' 3 '8 '' (1 @24978'
48 !' . 4 5(' ' (55'8' - ' 4'674' 87; ;488' ' <'2'78' (? : (2?78 ' 7 ' '5' 3 =5!' (9!' 5! ! !5;!9 ''9!' !' !' ?V'578'
<'?'78' 22(4' = (1 ' ># ' 5 2'(1' 87 :4 ' ' (55=' Z ' 49;4@ =' . 4 5= (5 '(8 ' : '!' (5! Z!' (72'578' = ?(52'L1&'
: = 51 ' 5 '8 48' ?48 '5(78' 48 ' G79 (' 4?(1 ' K' 9 ''' # (2!' 7 !' (55=' 5; (5!' , -!Q' !, ' ; !M!' =8 4(' (55=' , Z'
? '578' = ?(5371 : = 71 ' . 49 ' : = (; '' (' (72'5=' : (@2' (78' 48 !' ?V'5'' =5 4 8'=541 ' 4<4 ' : =5!'
(9=5 ' (?' (55!' , ' @(!' , M!

" ' !

!

2' #1#<' 88 8' ' ' 2' ' !'
! ' f' Y8J' #<J8' !

2 ' ' 8E#' D)<' D)#28@'
, ' <F#2' JD)' # # ' <8 '
, ' 8 D)' #Y# H' D)# F<@'
8' # << # H' _ # D) ' 8' q)2 J #9)8'
2 ' J2FD))' D)#< <' #F' D) < ' # '
;4 ;@bU@' @!' @@5U: : :)
< J' D)8 ' <<#' H# ' J# H ' w' 222 '
J' ?<#J)JH @
JF<' ' #D)<' 8#8' F)' < H<# #' <' '
JF JH # @
1;2 - ' J' 9)JH J)' 2F< ' _' U2 # '
J' F JHD##2' ,)Y

")E# 2' J' A28 HD)' m #' U;2F HD) #' ,4Y'
;2 8 <' ?)<8<+9)' ?! ! !

KAK 9 ' ' D)JH 28#J # ' ;2# # ' ' <F
' q' !' ' ' q)<9)JH ' J' 2YD)8 ?9# ' m '
ND)2 <D)# H8' 0)#9J2 J)' J' h8#+F) '
' ,1Y' ?)9)JH ' < ' <' 8 8 #2' 2Y H #8'
' ' D)JH hF 8' 8#JH#< ' #J' | H+X)22'
J' ' A28 HD#' _' 1$ ' 8DD8JH' F

+ 8+# +F ' + FF-' 8! ' ,A Y' G -'
1#2#F-' /# JH #' F+G 8 -#-' -' + 80'
+# F ' 1F2 # #-' #G # #' 2 <#E8' <8+JF--F-'
8+## ' F E8' E#J F ' 8- @ 8JJF-0 #+0'
JH8F-' E#X# @

/+#G#EF-' 8- ' I8 F-' <+a' 2##-@
: F#' <+ 8I 28' # ' 8 #+#
8-' 8++#1#J ' 8I8 # ' # E8@
JJ#E8 E ' G F ' 1#2#F ' /# J 8'
JJ28-# ' 2F 80 #+ #+' +#- #-' 8- ' H E#8'
<+ < 8+' SF F +' 1 2J8' 82F #' 8-- -)'
+ J+ ' <F2J +F ' # 8 ' UF 8 8-' 8'
22 EF ' 1#2#F ' /# JH #
' EF -' 2# -' SF -' E8128 ' 2E8' < <F2#'
G F ' 1#2#F ' /# JH #'
F+G 8 -#-' 8' F ' 1#2#F ' F 0'
H 2##

H 2EF-' 1#2#F-' EH#' 8X' # 8'
#E JF-' /8+ 8 -#-' SF#8I# ' ,AAY
9 ' !' /+ 82#F ' 8 0 #E# ' <FE' &+F# G'
' SF ' # 8+18J F-' 8- ' /# J ' 1#2#F-' 0'
E #' 8X' & 2 + E# 8' /# JH F-' 1#2#F-'
&8 #' + FF-' 8- ' /# JHF-' 2 F-'
8X' J2#8 82-8' G # +F ' + FF-' 8- '
$+ 82#F ' &F 0 8 2 + 8 -8 # 8+' & 2E#F

B C' ! - ' ' ' #' ' + ' ' #$ B
BrC' [[' 1= 7''8' 48 !Q' ':!
B C' K' . ' ' ' ' ' ' . 1 ' '; = ' 4 (!Q' ':'?!

B, C' .=?4 '451' '<'2' 1' .4 41' 2;21?42'841' !' =2=1:1' (1';(1' 141=(' ?(15(5=8' '5' '('
=271:84' ! ' ;!' !
B,,C' %'?4' 5= (1' (?' 55(2!' 2!' (55!' , ' 67" 48' (4(4' !M,-' 67=' ('?=;78' @ '178' 4 5458'8' @'8;=@78'
=:'' !' 0=;' (55=' ,-' !'](2'71' !'](22458'8' =5(8 4 '"'5' 042 4 '(';=5?' = 41' =:''84' (55=' 9' @=8' ('8 "
87" =271:(5" =:' 71' 8; ':'' 884 '78' 49' %' (' 4G78' 8; '@ (' 7 ' <4 7 ' (' 34=?= =' (1@'?=54584!' 4?' =@78'
'8 7?' 5=5' 48' 477'571!' 2'" 49' E(2(< '?=' (:=54' =:' 71' 4G78' 4<4 55 ' ;71' (:'22=5'=' '5' 55(2':78' (?' (55!'
!' 4 71' 48' 4 ' =5(' 79= '45848' @4 ''884' 7 ']('278' 4=8' 4 4 4' 4 '78' ::(8' @=8' =:' 71' ,?" ::('8'
78 (8'' 65" ' (55'8' 49'' (' =271:(5" ?'8;4887' (55=' ' (;' @ ='5?4U '9'884' 78674' (?' (55!' !' E('(< '?58'
(55=8' ^ ('8' M-' 4" ':7'' 78674' (?' =:' 71!) % (4 4 4(' ' '2278 '8' (2=' (=:4 " .4 '8' (14 ('58'](2'71'
(?:7;' ' 45 41' ;=27'884' ?';' 7' (@7?' .(?@4 71!& '41' =:' 78' 49@2= (71' :(:4178' " ' / ' " ' ;=5845&'
'45 ':78' E(2(< '?=' E(5?42:4 =' 87(?=' 4' ?=54!

D'e3bU'<' II *U U7<'7 '2'&
U#D)# ' * , ' q F#2U2F J2# ' ' U'
@U8#22' 0)< #2 8 q#<2D) ' my ' U ; 2F H

9 ' !' JH' 6 1# J 19)# ' # ' T# w B #B '^
q IJH #8 ' # J' #`# 8 8' , ' " '
'N ' q !')#9J2##g)' # J' |8 #9# '
2#I' D)#72# 8<#' m ' |D)2U#9) HD)' , Y' 9E#
D)#m# ' 8<#) F)#-2# ' 2#D)' 'q<J)#2 8')2D) 0'
0)8 # ' " ' !' ? 2# H 8U)#1
E##' # J' , ; E82 F# ' m ' #' 1 2E# 8' J8J ' _'
E82|F# ' _' E821#FE# ' , Y' _' E82JE20'
E# H ' _' E82 U#8 E#2' _' !' ! ' , '
' ' U ' 7 ' '

9 ' " !' EJ ' |F# EE#J 8##' E' 2Y 2 2F4
EJ E' ' ¡ , Y' ' ! !' ?)<E82E## # J 24
E# ' ` !' E# "' " !' EE7 E#E' ' '
F# 8' 8 #Y # J #EJ I#EJH' " ' 'N
| # H E22' # J _28KY#E' # !' 2 '### 8'
8 H # J #EJ2#' J' f # J1#E#" ' U#8 E' E'
##" E2' JE8J2# # J JE |2E# ' K '
2F# E# ' ((' E1 |E# ' | ' bE#2 E#U | #8'
2' ?J2 E' 2FE E' ? .)Q) F# E# ' # J

1#2#F ' EH#' 8 ' G 22F ' wJF ' # '
SF ' JJ#-F-' 8- ' " ## +#F-0 " #22-8 JH ' 1#2#F-'
/F+ +2+ #' -8--# ' 2J2F w' ' 8< 0'
F-' 8#22#' G #' ,A Y' / 2 8F-' /2 '
8X' #w
9 ' !' $+w2#F#1 ' +EJ + 8 -8' # ' & 20' KA_
+# E ' ,A Y' JH 8FF-' 1#2#F-' + 8 ['
JH' I#J +8-' 8+ ' # ' SF ' J8J#E# '
1#2#F-' & # 8 #' JJ#-F-' ' J E 0 +I '
8G8' & 2+# E ' $+w2#F ' + 0/8+ 0'
E G#8 -8' # ' +8G# 8' 2# ' F #' / 2 8F-0'
/2 0/8 # ' I#J +' 8+ ' " F +8F-' EH 8F-'
1FG# ' 22F-' 1#2#F-' 82EF ##' 8X' #'
#w' J8J#E# ' 8 ' 82EF# F- ' 8 ' 82+F0'
F- ' 8 ' 82J 2G EF- ' 8 ' 82 +8- 22F- ' 8 '
2##' F2 #' #28- ' ' #228 ,ABY
; #-# ' /F+-8#' - 8 - ' 8- ' ,A.Y
9 ' FU#' $+w2yF ' &F w JH#+' G8)F ' ' KAC
2G2F ' # ' SF ' #<-8' J8J#E# ' / 82 F-'
1#2#F-' 2 +2# 8X' G8 #w' I#J +' 8+ 0)'
$+w2#F ' Hw' # ' SF ' !F 8F-' 8 '
1#2#F-' /# JH+ JH#' I#J +' 8+ ' & 2EF-'
1#2#F-' EH#' 1FG# ' !F 8F-' 8 ' 1#2#F-'
/# JH+ JH#' JJ#-F-' 8- ' <FE' 2# F-' +8 #w'
' G 2 ' wJ ' 1#2# ' !J 2 #' +-'
2F #' #y2##' +E #' E8' 1 #2# ' +0

B'C' '!# # ' # ' '; = 48' 4 (5 '!'!' 6 =' ;4;'?' ' . 7 8' ' ' ' - ' # '!'!' ' #'
3 =5!' ;= !' :'?!' %'?4' 55(2!' 2 !' (55!' ,] ' A A' !' ,Z!
B C' K' ' E+ ' ;4;!Q' ' =5!' ;= !' ':!
B C' A' ' - '!'!' 6!' ;4;'?' ' '@84 ' . ' ' ' - ' M - ' '; = ' 4 (!Q' 3 =5!' ;= !' ':'?!

B, C' =5<4 ' 55(248' 2 =5!' 4 ' %' ('8 = !' 4 ' ?(15(5" =@78' ?4' %' (' ?7 (:A ' ! ' ;!' ' '5' 67':58'
@ A2'(' 4 ' '5;'@48' 87@ (' 5=1'5(" 141= (5 7 !
B, C' (7;(' ?48'?4 (5 7 ' 67A' 87@@245 5 ' 49' 55(2!' %' (!' 4 ' 5'8<(2!' 67':78' 24; = 41' 45''2 ' 158!
B,-C' 7 84" '8'=548' 141= (' 4?(' 49' %' (' 7 84' ' 7 ' '5' 4 !' 0':!' ! !' 5?';':78' =;4' . #) 884 '78'
(?' (55! ,Z' '567' ' A' . # ' . ' 4 ' 6 ' <'2'" 3'2(5' ' 4 52" 0':4 5';' ' ;2(74 ''5 !' ?' (55!' , ' '5'
K' 55(2! 2 4<4 7 ' ` ') ' " ' . # ' - ' e% % *' @=8 67(1' '5 4 =' ?44455'=' 4 :71' 4'
@4 '75' 4 8(1' 0':4 5'(5H' @ A?';(:(Q' t ;!' ; = 51' 7 84" 8; '@ = ' 4?(' (5 '6'''= !' '1 = ?!' @!' Z!'
=5<4 ' 55(2!' 2 =5!' (55!' , ' A A' !' ,Z!

L " ' !

!

2# # #' U '2 # 2## '2 ' h 2# 22' (' ' f28#YHD)B' h # 9)22' 8' A28h2FD' m

KAL' 9 ' ` ' Ec' ?m 8hH 8 # ' ' á 82J #JH' 8' 4J ' #2' ' I#F#J1# F' " ' !' 2I## ' !' +#J ' J8#m' U ' 2I # N ' !' w' h#JF#2' 8' 82#' m ' 8 8 #2' < E# 8' !' _' ' ?c28h # ' G' ' !' A' m + ' 8' #H ' _' ?) #2 8' 8' J2#' _' # 8<#J' 8' _ 2 m#F#J' m # 0' Y ' X ' J' # ' ' G' !' ,R Y' 8H0 F 2## 8' A28h ' " ' ' ' ' J8J#' ?) #J 8' D)? ?2+)J' 8' ?m< 0' < 1 '5!

E # ' E8' 1 #2# ' +E# 8 ' 2#E*11#' *-' 2F 8 @ *8E8-' F 8 #' 2#2##' 2 #' ; - # ' G8 #-8' <8+' & 2E ' 1#2#F#Z' EH#' & 2EF-' #-' +8G ' ,AKY

9 ' %!' $+ 82#F ' 7 ' # ' SF8' 82J H' 1#2# -' ! J F2 #' 8X' $#J +F ' I#J +' 8+ ' & 2+# E####' 8J#E8+F ' 0' J EF-' +I F-' 8X' & 2+# E 8' J8J#E# ' 8 ' &#JF#2' 1#2#F-' JH#' 8X' J2#8 82 8' $#J +F ' J8J#E# ' 8 ' 8< 8-' 8E #' J8 J#E8+F ' #E' 8- ' #GF22 ' 1#2#F-' G#' 8 ' / 2 8F-' 1#2#F-' J2##' 8 ' -8+#J' 1#2#F-' 2 +F # ' ,A_Y' 8X' ! X F ' 1F F+F-' JF ' - + G8' X# ' -F +F## ' JH E#F-' 12 I F-' 1#2#F-' EH #' I#J +' 8+ ' # ' SF ' J8J#E# ' " F +8F-' " #22-8JH' 1#2#F-' / + #

B C K' = 8' '$ 7 ' ' ' (55=' 99' 4 5" 87' Q' ':! BJC' 5' 67=' - ' ' <5 ' ' Z' 7 ' ' ! ' '; = ' 4 (&' '5 ' 65=' ;4;'?' ' 0 # ' 0 6 ' ' K' # B' t ;!' ':'

B, C' K' '':54=' 45?'=' '5' 4 5=' 0':4 5'(4' 87;;488' ' =5(2?58' <R2'78' '?' ' (55'8' 9 '!Q' ?(1 5(558' 47 1' 1 4 1 = (' ! ' ;!' M' 4 ' ! ' ;!' !' 884 !' @(!' - &!M' 4 ' @ M Z!' %'?4' 5= (1' 5=8 (5" (?' 55(2!' 2 !' (55' ,Z' A A' !' , !

B,ZC' (;4 '?4' :'8' 2' =5';=5' (9=5' (;4 ' 4 ' 4?(!' 5?4' 4('3(584 ' ' ' 4 1 (;358' (2'= 5 1' 48 =!' %'?4' 5= (1' 5=8 (5" (?' 55(2!' ' !' (55!' , ' 67" 48 ' A A' ;= 1 !' ,M' 4 ' ?(1 5(55 1' '5' %' (=27 1 : A ' 7 :" ?4' ' . " 0=;' (55=' ,M' 0=5= '''8' ' 0':4 5=8' 78 (248' (?' . = 1 (5(1' ?'4" (8;3(2'8' =:84 (' ('(1' '5?79' !' 4?!' !' , ' ;!' M' !, ' ;!' M' ! ' ;!' ' 4 ' , !' 7 1 '('' " @!' (?' 4 '4575" '5' L22= 4' 884 '' ' =!' 9'!) q ' 67'?45" 3(:' (' 48 ' (?' ;(78(5" '8 (1' ?'8;5 '45?(1 ' (55=' A A' ;= 1 ' !' L5=?78' M \ ' '5' = 1 =5'(U' 7 :" + ' 67" 4 ' '5 (''78' (2;3(5" <'2'78' ?';4:('' ' 4 4 4 1' = ?'54 1 ' M # ' " # ' 67" 4 ' ' <='(88(8' '(422" <'2'78 ' 4;3245'&' 458'8' ::(8 ' 5= 7 1' = ?'54 1' ?4<45?4:(' 7 ' '5' ?(5'5!' ?4' %' (' =27 1 : A ' ! ' ;!' !' 0 (:' (' 48 ' L5=?78' '8 (' '5' (1 @=' 2:=' (?' #- ' 3=?'4' ' ## ' :(7?' @ =;72' (' 1 =5 4' ('=!' + ' ::(8' =5(8 4 '" $@' ' '5' (78 (2" @2((' (45'458'7 1 ' 65A' ?';' 7 ' @ 6 ' 4 4 4 1' = ?'54 1' '5' '8 (' L5=?=' ?4<45?4:(' 5 ' '5' %' (' 4G78!' ' 1 = '?!' @!' M ') K' (8 4(5(8' ::(8' =5(8 4 '" 4' 32'554' ;7" 87:4 (5 ' - ' =5(;3' ' K' 5= 5 1' (?'''4 1' ?4<45?4:(' 67" 5''@4 ' ?4' . = 1 (' 45' ' (2'" (7 4 1' 4 4 4 1 Q' t ;!' 8674' (?' (557 1' ' 0':4 '' " 4 4 4 1' L;25 1' (55= 7 1' ' 84;7 '' (8;:(24 1' = 1 '5';(5" # (245?'8' @ '2':78 ' '5 4 (' 84@ ' 1 (5(' (5 4' 4 1 @=8' 249(5? '57 1 ' G(1' (' . = 1 (5'8' 4;4@ 7 1 ' =:84 (:(5 ' 657 1' (55=' @ =9' 1 =' 846745 4 ' ?'<<4 45 '(' ' :4:?=5'(?5 1' '5 4 ' 7 5 1 674' (2;727 1' '5 4 ;4?4 4 ' 0':4 5'8' (8;3(' ;424: (5 ':78' ?'4' , ' @ R2R8 ' . = 1 (5'8' 4 =' ?'4' , ' (''!' 5?4' 7 1 '(578' (?' 4 '4@55" 8; ':458' '565') K' 4584' '5 4 =' (' . = 1 (5'8' ?'8G75; ' K' 85 1 78!Q) 0 (5;' ?'<<4 45 '(1' ?4@ 43458(1' <7'884' (' =5(;3'8' . = 1 (1' 1 '88'8 ' 8; ':' ' ':'?4 1 !) ' 67'?4 1' @(5'4' @=8 ' L5=?5 1' '8 (1' :(:' (1 ' (55=' ' (8 4(57 1' 4 ' - ' (2'=8' 0':4 5=8' . = 1 (1' @4 45'884 ' 4 ' 4 '=' (55=' 4?''884 ' 8; ':' ' ':'?4 1' 7 1 '(578 ' 4 ' (7; = ' 4 78' %' A' (8 4(5' ' '5' ''5= ?''8 ' @!M ' ':'674 4@4 '884' = 1 '5'&' ;(1' (8;:(24 1' ?'4' , ' ('" ;4'4: ((1 ' 6775" '5' 0':4 5'(' ?'4' , ' @ '''8' =:84 (4 5 !

5;A@' ' (55=' ' 67'5 78' L;278' (8;3(2'8' (55= 7 1' ' 87:' ;7G78' '5' '7 1' 8; '@8' ' @ A?'; (1' @'8 =2(1 ' 7 1 5''(578!' 55=' ' (8 4(578 ' (:' 0=5= '=' (@(' ;=584; (58' # '@=8 ' ' 4 ' . = 1 (57 1' 878;4@ 5 1' (55=' 4?'' ' ;5 1' 8=;'28' '5' 0':4 5'(1 ' 4 ' (55=' 846745 4' ' !' '?(578' 49' 5872(' < ' ' (?' <'?4 1' = ?(53L 1 : '8' @ A?';(5?(1 ' (' 4 '45=' 67(=' ::(4' 0''4584' 1 '8878' 48 !

" ' ! ! L

D)JH hF# # JH#< ' F # JUcF
DD1' 1F#2#
JJ)2' #J J JH D)#2 J<F ' J 29
5' '@41@bU' '5bU@LbU! &
YD)Y ' JD)#28 F# 8' U PB ' $2#D#E## F 8'

9 ' " !' 9#+# ' H#<' ' ' !'
' !' mU ' # `' m # ' !' ? ' " '
' ' JD)JH ?<H8D)hHD#08 # !V) '
0<# J# # Y `2D)82 F# #0x YD)< ?22#22# m2 D)X '
U) D)# 8' F# ? 2 X)8

9 ' " !' D)JH #J ' JF ' 8' ? 2#22# # '
+ ' ?!' '8 ' # " '
') " ' ' ' / ' # '8 ' _'
K '+ !

E<' # D)8E#D)' 8' 2 J S#8 ' ##' K !

9 ' !' D)J ' 2D)' D)E#2 ' _' _2 <<D)#E# #!'
2' f' ' M <#F#2J 8' JD)2<<DD #JH
" !' !' _' D)E#2 ## !' 8 ' @R
D)E# _2E#D)' ?.2 2DD' ' q ' d#JF22' 8'
0<8< F<D)' F22# 2 ' ;2F H9##' #< UI28J4'
' '

$+#82#F ' &F J8 H#+ 8 -8' # ' SF ' G
~# 8' # # 1F8+8' JF2# I#+#E8-
G 22# <+ G8 #8-' # ' 8 ' G8+8 E ' 1F8+8'
E 2 -# @
-' 2JH# # 1#22# &# 8' E8' c H0'
F# 8
92 ' " !' +-' G#0- SF# -#' F '
2## E#JF ' ' <+# ' +8G # -F#' SF#
I#J F-' 8- ' # ' <+-82# ' /8 EH 08 # ' & +0'
' # 8 ' # F-4' $# #0 " 2I 0 #G+c'
##-') 2# ' 98G#-' ! X F ',ACY' -8F-'
1#2#F-' ' #E8#' ' ' ,SF 8E ' E8-F *Y' ,ALY
) ' " !' $+ 82#F ' # 8+' E # F ' 1#2#F '
#22# 8G8 ' ! X F ' SF# -F<+ ' '
+# # ' +8G I# ' # ' SF ' I#J F-' 8- ' '
Hh ', Y' 8G8' +# F '8 '$8 E '
! X d ', Y
F-' 8 8 H# 1#2## JH +8 # 8G#-'
$) +F
9 ' !' $+ 82#F ')G8- F ' ' H2 ' 8 ' K A'
1+ H ' SF#' E8J 22 F-' 8- ' # ' SF ' -0'
2EF-' 1#2#F-' H821+8E# I#J +' 8+ ' 8 '
2#2 ' 8X' +# F ' J8J#E# ' , Y'
$+11#2#F ' ; E# < +F ' # ' SS ' J8J#E# '
&#J#2#2' 1#2#F-' /8+GF-## @ FFE # 8-' # '
@ - 8#EF ' -F2 8' 8 0G # '
RJ E# F ' 8- ' H J' '

B(C' s7A' 5((7 '3';'87:' (55'8' ,M' 4 ' '49 (5 ' '5' 55(2!' 2 !' (?' (55!' , !

B, C' 4' w ' . X 4' (9=571 ' 4 ' ?4' ?V'5=' <'2'=' 4G78U' '?4' 87@ (' (?' (55!' , !' 2' (; ; ' 3 =5!' (9=5 ' ?4' (55=' =:' 7(24' q 22A!' 55(2!' 2 !' X<X (5 ' (?' (55!' ' A A ;=1 !' ' 65A' 3';' ?4' ?V'5=' 5((5' 7 !
B,MC' . 48' 48 (8' (55" 37G78' (2' 4 ' 49@=7' ' 3 =5!' ;=<'3'8' 4 :'8) K (' ' M # ' #' ' . # ' C' ' ' K' # ' '5' 6!' + ;6 ', '44;'?' !' # J ' ' . 7 ' '; = ' 4 (!' 5 72('=' # $ ' ' + $ ' = 8' K' ' ' ##' 5 ' (2' " ?!5 !' (55=' @ ' 1 =' 4 5" 8=' ' 67" '; 78' 48 ' '5' :422=' . ' = 1 ' ('=' . B' t ;!' 7 '87@ (!' =5 45'75 ' 55(2!' 2 !' (?' (55!' , M ' A A' ;=1 !' !I %'?4' (55!' -' '5< (!
B C' :' 71' ?V'5" '5 4 <4; " (' 4(?V(22(' 4 ' 45?(' 4<4 ' 3 =5!' (9=5 ' (?' (55!' ' @(!' ,M!' 55(2!' 2 !' (?' (55!' 'A A' =1 !' !' 884 '78' (?' ' ' ?!' ; =:!' !
B C' %'?4' 55(2!' 2 !' (55!' ' 67" 48 ' A A' ;=1 !' , ' ;51' 5= '8' 5=8 '8' (?' (55!' '8 51 !' (;4 ' ?4' 3'8' 3 =5!' (9!' 5=5' ' (' 4?(' !' ' ;!' ' 4 ' , ' (55!' -!) 27' 2=;=' @" 5A ' 8V(2?78' %'; = ' !' 5;'8!' 8' 571' 4 49' !' K' . 48& K* (5 '5' ;3' '8' 55421 !' @25 ' 1 A' ;3(A ' ;71' (5<'67=' ! (3 :4 " 8' '22=' (55494 ' '567' ' ! 1' 3' '5' 5= (' (?' K' 3754' 2=;7 (' 4?A ' '5' 67=' 493' :4 5 ' (@5 ' !' 8V(2?" 49' 75(' @(4 ' 4 ' 59' 4G58' 49' (2 4 (Q' 4?!' (5 (: !' @(!' ' 5= !' - ' ' 41674' '5' @@45? ' =!' 9' ' ' !) 4?' ' '22(' 57567(1' '5' 787' <74 75 ' '5' 5 2' (' (5 4' X1 @= (' ?V(" =5<488=58!

LA " ' !

! !

K ' 9 ' !' ' 18<F#m? m ' ?!' '
!' ' #D)<E#D)<? 2#<#
') !' <8 J2) ' #D)2DD # ' #8' *28 29) '
8' 8 D)# 2#' m ' !' #8'
#+F)# ' #8' 1$B L' 8' F# 8' !' ' !' ` _'
D##2 8' # ' I ' #' " ' !

<%2=@ D'27 5:bb! ' :45' '5845' ?!' 5bU`'
1J< #9)< #J 8' ?!

B- ' #!' ' K24:: ' L'bU14
= #U22 14' L'7':54' =4' 2=;2' @4'?'2' =;'
L@4''#U5:!' ' ,' =5-bU2 D2' 2C@4-' '&41U;:!' :!'
= #U' '-' _' *`2'22!' ;@1?'4@4' @45??'!' :!@2'
5' 'C27?'bU' :!' L4' '54' K2::' 24' ! '
8J <D)# ' " !' / # # ' + G'
' ' * !' j=;:=':' `2:!' 2'@&'
'5='@' ?!

!814' $U ' !' A' !(

K .' :bU"@ =5#'5 ' BGGC 14' L7':54' ' ;?'82'
14' b2UbU:@@#'42' 2 ' 7b@1bU';' 14' ,24::bU
L'bU14' _' #' D_bU4271 ' 14' L=@bU5&'
:bU1' '22'L' y=4:715!' e2 ' L1;bU'5' !'!'
D_75:7' 14' 72;27U1' :1' ' J !' " ,!'
_' @5bU14' 14' G'4L454!) bU?' L4 :7'@4'
' ' ' 2=;:454' 14' U4;:4?1' ;45<=;wU' _'
71bUL;bU;:' 14' ,245 7LbU) ; ;:' 7'24'
4bU42 1' 2 ' 'bU@1bU';' 14' *`24:2 ' 8
' 4 !' UbU4271bU 14',247 7@bU _' '
!' ; !

9 ' !' $+w2#F ' ' 8G#-' +# 0'
F ' SF#0'# ' 8 ' J8J#E# ' $+w2#F ' ; E#'
" ' E' JJ#E8 8 ' 2F #-' #11#' # ' SF '
J8J#E# ' +# H ##-' F#2 8 -#-' 1#2# -'
8EH# ' 1#2##' !8 G# ' 8X' G812# + '
/ 82 F-' 1#2#F-' " 2 # ' 1#2##' 22# ' 1#2##'
!F 8# ' 8X' #E#w ' 8 ' / 2 8F-' /2 '
8X' #y8' I#J +8-' 8+
+ ' #w ' X +' /# G8 # ' SF#8I# '
F-' &+ + 8 -#-' SF#8I#
9 ' !' wE8-' EF +F ' 1#2# +F ' 8EH#'
!2 8 -#-' <8+' 22F ' 1#2#F ' !F 8# '
<FE' JF ' +8# H2# ' # ' +8G# 8' / +80'
#w ' # 8 ' G 2#' 8G#-' +8G#w ' I#'
' G# ' 8 ' 2#2E#' # H +#- w ' I#1 #0'
2#w' &2F G# @ !8G#8 F-' ' ##8 -#-'
JJ28-# ' 8J + F#w') -F2wY' 1F E I# '
G+8G # ' ! X F ' J + ' - 2EF '
JH E#F-' -' #- +\ -#-' SF#8I#
+-' G#' 1#2##' !F 8#' # ' E '
1#2##' E1+ JH# ' F' &# + # ##' 1#2##'
8EH#' !2 8 -#-' 8 ' F' 82F #' 1#2##'
/ + E F# ' # ' F # 8 ' & JH # @'
:F#8-' /#F # ' # ' 8 ' F F ' 1#2##' F2JH # '
E#8' X##' 9 2' I ' 8 ' #' 1#2##' +8-8 '
$+w2#F ' !8GF-w ' # ' SF ' J8J#E8+F ' 0'
JH8 8F-' 1#2#F-' 8JH #' <# #-' 2 G# ' 8 '
F -J JHF-' 1#2#F-' 8 GF-[@ $+w2#F '
F#20 82 8 -8' G8- F ' ' &# + # # ' 1#2# '
8EH#' !2 8 -#-' # ' SF ' J8J#E8+F ' 80'
2F ' 1#2#F-' 8 GF-[' 8 ' 2G ' 1+ 8+'
#22#F- ' , AY

3 =5' ;=!' 3(:4' ' ' $ ' - ' + 7' ' - ' ' 1#

B ,C' .48' 48 (8' 37G78' (55' ' 141@ (5 ' 87:' 4=?41' (55=' 55(248' 2!' 55?4' 884o7 ' ;;248'(1' .4;3 (&'
545841' <75?((1' 4<4 ' (?' (55!' #8' 'kgr ' 65'(' 541@4' 8 (1' ;=1!' 75=' (55=' (5 4 4 ''7 ' 4 ' 65'5 58'
L;278' (8;3(2'8' (55= 71' '5;4@' ' (55=' !' 4?' 67(8' 85:' 55=' (55=' ' 3(:45 7 ' '5' ' 4 5(;3=' ' =5'&'
45848' ?'L'?55 ' '5' (55=8' ?(=8' ' 4 ' ' '!' 4!U(4 4' =1!' ' 4 ' ' @ '= 41' '5;'@'45 48' (' ;(4?4' ?7= 51' <p2'= 51'
4?3' 2(54' 4 ' @=8 4 '= 41' (' # ' -

" ' ! L

! !

9 ' U! BO ' 5 2 ' ' ; ' U@ ' ;2 ' U ' ?
" ' 2 2 T2#<#JHm ' # J ' :2{ 2F) ' : 2 # ' #
JD)E# 28J2# #m 8 ' ,) Y # ' D)<# 0
JD)# 2# ' J2#FJ ' ' m2 I) #J2## ' ' , ; '
K R !

9 ' " ! DDIJ2# U # 2#8 <# '
. # s### 22 # J ' ?y28 # ' w <# ' ### J # P #
? 28 2# ') ? ###8 4 4 & # 2### 22 # " '
% ' ' ' ?T ! ' S { j 2
J 8JY# I ' ' w $ 82 ## , 4Y ' J ' ! '
, !F , 1Y ! ' ' F# 8 8 2# # '
F #< ' E# #22J#< <# ' 22 82
n ; 2 #28J ' < < J8 82 ## ' ' # ' 2 '
J ' ' I< #2 8 # # ' m ' , `2 # 2# '
e ! ' U? Jm#F ' U2 E# # ' H# ## ' U? ;2 #

9 ' (' E# # #<# ' , yY #
! ! | # 2# #22 <#JJ ' ' ' J8#JH8 | ' _ '
, ' J # ' < ' 8 22 8 2# | 2# '
? 2 ' 2F # # J0 # ' , ' ' ' <J 2 #-2#8 '
> PP 2?`2 JHF ' 22 # ' , Y

9 ' ! 2 ! ! ' ' '
! U! ! . ' #28 ' Y I_ ' b F##< 8
' | ###H #22 ' E# <F #2J ' J

9 ' ` ' #E8- ' # 1#2 [' / # JH # ' K K
: F#8 I # ' 821# H+#G##- ' 1#2#F- ' EH# 22 #
' <+ 82# ' 8 H + 8 -8 ' X<F2-# ' +0
H G# ' # 8 ' JHFE#8 ' 8 - 8+# ' 0
H8 -8 ' # ' E#8 F- ' $ -JH 8 ' , Y

9 ' " ! $+#82#F ' #0+ H81 -8 G8- F ' K _
' & 2E ' 1#2# ' 8E # 8 ' ' 1#2##- ' 8EH#
! 2 8 -#- ' ! 8E ' & 2EF- ' +8G I # ' 8 0
+# U # ' #22 ' 8 < +8 ' # ' SF ' J8J#E8+F '
G 22F- ' 8JF- ' 8X ' 2#E# 8 ' 8 ' / 820
JF- ' JF ' F2 #- ' 2##- ' #2# F- ' # ' SF '
J8J#E# ' ! F 8F- ' 1#2#F- ' 2 # JF+ I # ' , BY
$+ 82#F ' ! 2 #+8 -8 G8- F ' ' 22 ' G+
J#28 ' 1#2# ' 82J H#1# ' J + ' #+ 8 -8- '
8 E8 ' E#8@ # - ' / 2 8# / 2 # 8G#- '
8 ' : F#8- ' JHFE# 8 #8 -#- '
EF- ' ## '

9 ' A ! $+ 82#F ' ; 22#- ' #+#- ' # ' SF ' K C
18SF J8- ' & 22# JF2 # # ' 1FG ' I 8+-#
-F ' 8 ' -8--# ' # , E# 0 F+G# f Y
+ F- ' 1#2#F- ' 2 GE8# ' - ' 2F 80
J #- ' ## ' & 8 ' +J 2 G##- ' 1F# ' #- '
F- ' JHF ' , #-Y 22 8
, . Y 9 ' ## ' 8+ J28 - ' JF ' #+8 -F ' K L
+ # ' +8G ' ; ' 8 - ' , KY -8E8- ' 0
G 2## ' # F- ' &F -#E8 8 ' FX +#- ' & 2E#

B C K ' = ; 3& ' : =!Q ' ' : !
BJC [[C . ' ' ! # ' ' + ' 1# 7- B t ; ! ' :
B C 5 : =5! ; = ' 846745 ' (' 8 ' ; ' 24 55 7) K ' # ' #5 ' ' 5 ' ' + $ ' 1 # ' ' -
1 ' 4=? ? ' 4!Q
BpC [[' 5 ; = ' (Q ' ' 5 4 ' 2 ' 54(8 ' 5 : =5! ; = !
BiC K ' ' B : ' ?!

B C =5 45 ' 55 ' 55(2! 2 ! ' 5 (55 ' 8 - ' ' Z ' ' M ' 5 ' 8 ' 67=? A 1 1 ' ' (5 ' ; ' @(5 ' (55= ' !
B C A ' ' 5 1 ' = ' & 2(: 4584 4<4 ' 884 ! (? (55! A A ' ; =1! Z ' 67 ' (' ' ? 4<4 75 ' ' 4 5(; 3 4 ' 55(2! 2 !
(? (55! ! =5 45 ' 75 ' ' (674 8 ' 5 ' ' 2 ' 5 (55A A A ' ; =1! !
B -C % ' ?4 5= (1 ' ' (? 55(2! 2 ! (55! ' 75?4 ; =58 (' (5571 ' : 75 ; ' <7 ' 884 4 4 (A A ' ; =1! M ' 4 ' ' 4 &
5(; 371 ' 42 1 (5745841 ' 4G78 ' =1 ' 8 ' 884 7571 ' ' ' ((; ¡ 4 1 ' 7 ' 4 ' ; 3((; 4 48 ' 8 = U 8 ' 172 ; 7 1 ' 5= ' 8 <4 ' (2 ' : 78 '
4 1 45?(5?=8 4884 ' G79 ((4 ; 725 1 ' 2 ' 7 ' ; ' =@4 ' @ A 1 ' 887 1 ' 5 ' (5 4(' 1=55 ' 1 58!
B C O4 (; 24=5(8 ' O4 (; 2 ' ' < ' 2 ' 58 ' 1 @4 (' ' 1458! 849! i4? 5=5 ' 1 14? ' (4 @=8 ' O4 (; 2 ' 7 1 ! =58 (5 ' 5=8
45 ' 1 ' < (4 ' 4G78 845 ' = ' 4 5(' ' ' ' 145848 ' (' 5= 4 ; ((' 5(4545= @4 4 1 @ 58!

M " ' !

! J

<D) JD)' ' ¡ * ' !' ,IIY e ! ' <#JD)# '
' DD8#' <F#### ' w' ?y28 HJ)' hF# ' D) ' #228hD) < 9 '
m #' 2D*# ' D)< JF< ' <#D)82 ' #D)< JD)8E#' F
!' [M 0$D ' 2 E #0 2# 8' 8' D) ' # D)'
?! " !@ YD)2 ' \ -' 28 ' HD)' $ ' ,) Y
!' ' ' % F K ' !' FD) ' 8'
6 2 E2 D)# ' < ' 1?`2F F) ' f '

$+-82#F ' - 2E#' J + ' $8 E ' # ' S '
- 2EF-' J8J#E# ', _Y' : F#8-' +# H #'
' +# ' 8 ' 8EH#' #G+#' #-' 9 #20'
E +8 -#- ' SF#' 1F# ' 8 ' 8X' G8 # 8 '
82 E + ' J 8JF-' F- ' + FF-' ' 8- '
2 --#F-' 8 HG2# 8 -#- ' 1#2#F-' E# 8 '
' : # F-' ? U22E#' 1#2##' 8EH#' <#2 -# '
J' 8 < +8' H8 E + -' $ < ' 12 +F# '
F F-' 122#F-' 2G E##' 8X' # 8'
+ F-' 8-

KB 9 ' A !' 822 ' D) E#<EJH' J #' 2D)'
<#F HD) ' 28 I0' 2#D) E#E ' ' D)0
D) ' " ' ' w' ' J8#J2#' #E82 F# ' 8'
,24 : : bU' : 455 } 5 !

9 ' !' 822F ' +J#-' # JHd ' G8- F '
JF ' #8 -# F- ' 8 GF-#F-0 # H '
' I 228' & #' I#J +' 8+ ' 8 ' 8 ! ##G# '
82EF# F-' 1#2#F-' 8EH#' 8 #

KB D)?2 ' <#-H #' 8' 2 <JD)# 2#' 8' I ; D)82 F# '
8' q28 29)' D## ' ' #<JHE ' D) '
8' ,H!' J2#8< ' ' ') F ' I?`2D) 828 F ' '
8' qm<8I F<D)' 8' 2 ' e ! ' hD D) '
H#<' #28 ' ,4Y

F-' +#G#E# #' 1#2##' -J E# ' 1#2##'
82EF# #' 1#2##' ! EH#' 8 # ' # ' -F2 0'
' G ' 1#2#F-' & JH8+E#' + FF-'
8- ' 8E8-' 82EF# # ' 1#2##' $8+GF-##' 1#2##'
2 #0q : F#8-' & G #' ET' H8+' #28 '

KBA 9 ' ` ' / 2' !' ' '
4 !' D)1' hY 2 D)#22' ' 28 2#D)' '
A2 #<8D#JH ' ` !' I# ' ' ' ; ! A ' # '
' ' 2< < E#D)# 2#' K ! ' h s DD22'
<8J8' ' JD#JH <D) E#D)' D#F ' ,1Y#W' '

!' dM ' ` ' - # F-' 1#2#F-' 8+ J2##' +8X'
8 -# F-' ' ' ' ,28G8' I # Y' # F-' 2E#'
1#2##' 8EH#' 1#2##' #+8# ' 8G#-' # 8+ # 8 '
' 1# 8' F +## ' ' X# I ' +8G #' -F# ' # '
+E1 H #G ', CY' $ - 8 ' 2EF-' JF0

B C 0 9 ;' ?4' 1 = 4' 8V (2?" ?4875 ' '5' 3 =5!' ;= !' 4 ' (:' ' 1 @4 ' =' (1 (574584' '5' =?' ;4' ;?24' (5=' '584 ('
'?45 7 !
B2'C' K' . 4 '8' " 5' (4!Q' 3 =5!' ;= !
BrC' 5' 3 =5!' ;= !' 2' 14' 142' ' '8' 24 55 7 G (' =;4' K' ' #\- ' ' (!Q) K' ' + #' ' . 4 '8' '45&'
A' (2'75' ' Z' $ ' # ' ' . OM ' + #' ' @ ' 5 72('=' + ' ' . #- ' ' + y'
K' ' ' B' 0(4;' @= '= ' 4; '=' '?4 7 ' 49' 55(2! 2 ' (57! !
B C' K' # @ # B' 3 =5!' ;= !

B ZN' 55=' ,' 3 =5!' (9=5 ' 4 ' 884 !) (654' ' 4 5(e378' 8; ' : 4 4' ?437' ' K'G79 (' 65=8?(1!Q
B C' %'?4' 55(2!' 2 !' (55!' ' A A' ! , ' 4 ' ;=5<4 ' ((2= !' . 4 51' 0' : 4 5'A' '5' . 4 !' 0' : !' !2!) =5(2?T'
. 4 '8' 0' : 4 5'A' = : ' 71' 4<4 75 ' 55(2! 2 !' (?' (55! !' 4 ' e58 (5 '5' ' <'2' " 04 (;2' " @ : ' 71' (?' 475?45" (55!' 4 '
;42' 4' =58 (5 '578' 04 (;2' " <'2'78' 4 5(' ' 8='58' (' ('8' = : ' 7 ' ?'4' 9" 4 : !' ' (?' ?'41' , ' (' " 4G78?41'
(55' ' 4 ' =58 (5 '578' !?78!' 4 5(' ' (!! 1 4584' ; = : '8' (55' @ A?' ; ' ' (?' (55!' !!' ' ?4' 4 '<'4 ' 248'
?(48' ! ' @!' -&& !' 4?' . 49' 0' : 4 5'A' =5(2?78' = : ' ' ! @ = ;72!' ?7 : '=' (55=' , ' @ ' '5' . 4 ' 0' : !' 2!'
@'8 !' 75 ;7@!' @!299 '9!' ' !

" ' ! L.

! !

') @ , ' ' !' 2' f' "' # ' ', Y'
' ' # ' 8 !' : /(' -$7(7(W
F#+#' k 22' ' 1 $ $D $' m 8 8#22D) 9D)#1 8'
D)JH * ' # ' _' 8

9 ' " !' / ' U' / '
' " 4 !' #!' ? " !' > JHF#' h ' D) H
H8' JD)<8#s4 U $ $ B ' ?! ' F ' G'
' !' #' hD#' D) HD)#2
!')' * + ')' hk' '
, *' ' ')' &
' ?) 2 #E#8 + F#4' F # J' D) ' <

D) ; ' D)# 128' H 8' F# 8' $(' 0'
F # ' ' I2c D)c#')D) 82D)# ' ` !' ' e ! '
m D # ' 1< J' 6128 U D) @ DD7JH J ' J '
2 #?JE ' 9)U#' ' # ' ' .D) 4J D #J ' 820'
2 J ' _)' 22JD) 82' ' D) E#2' m 8' '
U # @
b:' 34!' Z245-7 ' 2'bU?7:'5' ' -U1 :' $7@'
D) ' ' 8

FD)# ' ' D #2JH# ' ?#<8U# ' D# H#' #'
2 8JH'28JH0 F# 8' #' 8
9 ')Q) ' Y F 8' D) 82 <80'
_' D)82D eD)# ' _' # ' M<#) # ' 8 D)# '
J FD ' ' 8#c < U E' # ' ' G

9 ' !' U;2 <#4' 0)F<D) <D)# ' ' 2Y8J8' $-

2 F-' # ' <+ G2# ' !+ H8 -80 I# #W' # ' 1# 8'
#' # ' &8J8 +8' # 8+18J F-' 8- ' '
>;' +8G #' -F#' ' # ' w' ' -U' ' '
8G8' +# F ' 8E8-' 2#2J ' 1#2##' 20'
#' 8G#-' 2#8 82#Z' G +## ' $+ 82#F '
- 8# ' # 8+' 8 ' +# 8-
9 ' " !' , LY' - # F-' 1#2#F-' 0' KB '
- # #' #-' XXI###' +8G -' S #8I# ' ,B Y
' ,B Y' # F2' +8G F ' < - ' & 20'
EF ' F ' SF#E ' E#JF ' #- +# G+ <H# '
#E' 8- ' SF F +' # F8+F ' +8G F '
8 <8' 8 22 JHF-' 8 ' 22F-' G+ J#2#- ' 8 '
EF ' 1#2##' 8EH#' !2 8 -#-' 8 <8' &# +0'
c #F-' 8 ' 2 H JF- @ 8 <8' <8+#F '
#X F ' F J
F- #-28 8' 1#2# 8' ! F 8#' 1#2##' 2 #'
8G# 8' /] 82 #' 8G#-' G8 # 8' : F#8-'
+ #' <#-J <#' +# 8 -#-' $+ 82#F '
J 8 -8' # F- # ' < - 8 ' &F E 0'
#+8 #' 1#2##' " + H# ' 8 22 JHF-' 8 '
22F-' G+ J#2#-' # 8 ' +8G F ' # 8+ # 8'
F-' ! J 2 #' G #' 8G#-' -- +# 8@'
G<#-#F-' # H 8 -#-' E8' I 228' & #'
+ FF-' 8-
F #F-' 1#2###-? 2JH# #' 8X' / 8 G# 8'
#E' 8- ' 8+ -' # F# 8 -#-' + FF-' 8-
9 ' -E8-' 8< F ' G ## ' 82 +8-0' KBB'
- 2##' 8 ' 82 - G2#' 8 ' J 8E8-' / 2 #0 0'
G#8 -#-' JHF ' +# 8 -#-' # ' H+#- '
SF#8I#
9 ' !' +-' / + EH+ #' 1#2##' 8J# ' 1#2##' KB.

B C' K' 9'"' 4 5"' 87'!Q' ':!

B MC' : =5';=5' (9=5' (?' (55! ! , -' 3(4;' 3(:4) K' O';' kL;278' '=5L8'' ' ' 4;45:= 45(2':78';=58 (58' 3=;'
K' 48' 9; ' (55'8' 87 1 ' 674' X9= ?'75' ('999' (55=' 5; (1 ('=5'8' 5' ' 4 ' ?48'5' ' '5' (55=' !99 '\' @(!,Z!
B C' O';' 48' (5578' 55(2'7 1' %2 =5!' ,!' 5 ';'@(5 ' 341@4' A ((' !' (55=' 75=!
B C' 55(248' 2 =5!' 3';' ('75) K' 3';' ?7:' (7 ' 65'8' 4 (' ' @=8' ' ';55 ' (2'' O'8 = '= (@:'
X 5(884' ' . 4 48 Q' t ;!' 7 ' '5' ' 41 (;3=' 4 ' '5' : =5!' ;= !

LK " ' !

!

FD) # JH' H' # ' # @ 2 J2#8 8' 8'
?m< 8## m ' U#F#J2# 8' ' @ E#
8J '2 #-H H' Ye8

J ! !' ' J h2J)# ' 8' 8JJ8' 8'
0<# J2#<' m ' 1#F#+H 8' 8 ' 2 # I#8' y2 '
? 8 J #< ?! " !' 8 ' ' !' f' !'
' ! ' ' 2' K ' !

KB_' 9 ' !' D)82J H ' 8' q)<# J ' E # '
' ' ' 8 Y0<D) B' 8' hF 0
;o z;o >

#8# ' 2' J8 0< h @'
' 82J #I' #2' 8< @
_' D)' J <# 2#' ' J @<<#' <EE#' < <F<'
:=' P7 R; :bU:3' B C'
2Y 2 2F E#)' m ' 8 h<#2' '

'KBC' ' % #

KBL' 9 ' " !' I2 DD 229Js# 8' 22 J J # m2# '
' ' J #J# ' 2 ' 82 <# 8' 8'
J2 J '_'2 ' <J 22F@

m2 22 JH' 8' 22 JD)J # 8JD)' 8' F '
4'24bU; ')

F#<J ' 8#J @ <' ' J# JH@
E# 2' 8#JH' 8<8JH@

" F JH# ' 8G#-' --# +F ' JH'8 8 Z'
1#2#F-' / # G8 #' 8X' $#J +F ' , / 2# 8+ #wY'
+ # -' 8- ' ,BAY' $+w2#F ' " F+ F '
8+' G8 #8 -8-' #<- -
9 ' !' wE8-' ! J 2 #' 1#2##' 8JJ# ' ##2##'
/ # JH+ # ' 8G#-' $#J +F ' ,B Y' -+80'
F-' -' 8FJH +8 -#-' SF#8 I # ' ,BBY'
8E ' H#8' F-' 8- ' ,B . Y' J' 8 < +8'
+ # F-' $ < ' 12 +F#
9 ' !' 82J ' 1#2#F-' / # JH #' UFGF0'
2 F-' 8- ' 8X' > 2#E#w' F' G 2#'
<# #-' 2 G# ' 1#2##' & 8H E#@

22' +# F F ' G 22#' <# #-' 2 G#@
! 2F F ' 82J 8' F # 8 #' -
GF# 8#'
! # #2#-' 1F# ' J 2 +' 8UF-' JH2 E#' I 2E8'
J JJ# 8#' & 2E#
2G2F H ' 8X' ' 8 -82 JH +F ' +0'
FF-' 8-
9 ' " !']G 22 JHF-' 1#2#F-' JH#' 8X'
J#w' ,BKY' J8J#E# ' JJ#-F-' ' 820'
+#G#E# ' 1#2# ' 2 JH ###' 8 ' ' +J 22##-
G 22 JH' 1#2#F-' JH#' F ' ! G# ' 8'
-<# ' 2 @
+# # F-' & F X' E8J8+ ' & FJF @
G F-' '2 J 8' 2 +#J#-
H 2EF-' & 8J8+ ' & FJF ' & F X' #22F- +#-

B C' 4873 ' 4 878' '8 " '5' 3 =5!' ;= !

B ,C' '24 ' ?4' 4=' 2' =5!' '4 ' '5' ((2= =' 4 71 ' '; = ' '1 ' 2: (5'A ' 4?' =' 49' =?';4' =2:4 '5=' (:' 5548'= '
4 ' (' '5m4 =5=!' (674' 4' '; '8' O ' :4 5'A' <7'884' ;=5845?''8' 48 !
B C' 41@4' '; = 71 ' O ' :4 5'(I ' ?4' 65' :78' 8'24 ' 3 ='N!' @ A?'; 71!'
B C' 2'78' <7' ' (8 4(578 ' 8' 4' + ' (422" '2'78 ' 4;2'245'458'8' : : (8' 4 ' @8!' 67" '5' O ' :4 5'(' = : ' ' '
(55=' M!' %'?4' 87@ (' @(!' ,) !
B -C' 4?(1 ' (:8=2 '884' (1 ' @' ='545' 65(1 ' O '8 = '(1 ' 87(1 ' ! !' Z ' ;=5 45'75 ' =1548 ' (55=' (4 ('8' -M!'
(78' 48 ' 4 =' (55=' Z,!
B C' . ((2'(;378' <7' ' 4 71 ' 3 '8 '(5= 71 ' =55(;'A' ' 7 " 87@ (' @(!' - ' 5= !' !' %'?4' '5< ('
(55!' - !) 5571 ' ' = 1 ' ' ' ' 41(;378 ' 84 (5 ' 55(248' 2 =5!' 7: " = : ' 71 ' !' 7 84" ; ; 4' =58' 5(5 !

BY#m ' -<8# ' D)   F' h '   D)E#D)2 J#D)' J   ' J   '
"' ' ' D2'-3bU':
JH   2'   J8 '   JH   #1#0   <' < ' H   0'
JH   #<' J8 ' '   @
R22   #-' < '   # '   #-H   #2'   J <'   # # '   8JJ
' ' <8' <#<F'   '   #J   f<   H' " !' '   #<   8

E#'   #< '   #22' '   ' K   !' '
'   F   J8'   ' #'   F   '   8' ?A2   20'
A'   8'   h ' m '   F H   ' _'   F   '   8'
<   #22' <' H ' ?<# 2#8 J8' _'   2   H   JH'
I ' ?2#   E#   ' _' . F   #<8' ;   ' _' h#   <   # '
8' _28 H '   ) 2   8' "   F'   !'   <8 H'
2 <   '   ' 2F# ' h#   <   F# '   '   E#' <# ' #'
J<# '   2F   # 0   J0   #<'   <   <8   ')   '
<   # ' 8J2 ' <<#' h#   ' <   #<' J   <<   H' <2   '
' '   J2#   # ' ' J <   #   8JHJ' <   @2   <<   H'
'   ; #- ' 2   <   ' < ' # H   #<' J #   8<J' '   '
<e   2   #   H'   <8<   '   '   2#   JH'   JH   '
h   ' '   #   ' < h' < '   2+ #<'   ' h#   ' _'   '
J' +8 < '   S##<<28' < <' 2 #   '   n ; 2#   #'   + '
J   #J 8   ' 8# H'   8   8 ' h#   '   F#   J#<'   # H' '
F<'   h' 8   ' 2hH' h8' <# '   ' <88   <J'   #   <
F# ' '   J 2'   '   2F   # 0   80

' +8 ' - 2#   ' H E#8'   H 2E ' 818#' < -
-8 ' JF X'   8   8<2 J# '   G   F '
+# F '   H 2E#' 8X#G8+8 ' -#   8'   +# F '
$ +#-@   8J'   #-#' <+#F-' - 2F   '   +# F '
$ +#-
E8 ' &8F-' 8#' +8 +#   F# '   J   8+I   ' J   0'
J8E8   -' 1 + #F   '   28   +F   @
F   ' -F#-' . K' H8+   #- ' -8X'   8+   8-' 8 ' E8J8   '
$+ 82##F '   GG8+#-' - J+#'   22# +F   '   # '
E#8' $8   8J   - 8- ' F #' E   '   F   #'   J8J#E80'
+F   ' # ' 8 '   F   FF-' 1#2#F-'   X 2G E## '   1#2##'
E8# '   8G#-'   #-8 ' 8 '   F   F-' 1#2#F-'
22# '   8X'   ' / #G8   8   F   ' 8 '   2   0'
JHF-'   8X'   ' #   H   +F   ' 8 ' " F   +8F-'
1FG# '   8 '   &#   +   # #F-' 1#2#F-'   E   #'   ! 2   8   0'
-#-' I#J   +' 8+   '   E8'   <   - 8 '   <+   18J F-'
8- '   &#   +   # #F- '   ' <+ 82# ' #- 8 '   2F   J0'
-#   '   F28+F   SF8' J   G+8G   #   8-'   0'
8   +F   '   # +   #'   2   #   8-' &8 ' <+ ' 8 '
F '   8 I   E8+8 '   - 2 I F-'   8'   +8   F-'   E I 8+-#- '
8E#8   -'   8X' <   - 8   '   F   ' 8#-'   F   0 0'
+J ' <F   ' ! F#-' <+   8E##- ' # ' 8 '   #   0   '
I   J   F+' H   E#8 '   J8-<# 8   ' <   8   8-'   -F<+ '
2   +8 '   2   #   8   '   &8 ' 8 '   # +   ^' 8 '
<+   F2G   -8' -F   '   +8-'   28E#J #   8-' J   + '
8G8   '   #E# 8' #   8+E#J8   8-'   2#8   #'   G8   #-'
-F-8 '   8'   SF#E'   J   + ' 1   J8+8   '   #   #' ^   8 '
<+-8 8+8 '   +E#   I # '   &#   +   # #F-' F ' #   #' -8<80'
2#+#' 8   + ' JF+   +8   '   ?

e !   ') F<<F' #'   K !   ' ,) Y'   Y ; 2 J   8   '
28#+H   #<'   !'   f

: F#8-'   ! '   F+-8#' # ' $8+   ' , B_Y'   0'
J   8   GF-'   8 H   +8   -#-'   + FF-' 8-

B   C'   4855 '   4 878' ' 8 "' ' 5'   3 =5!'   ; = !'   B<C' K'   4   75?51' (2' =8!Q' ' : !

B   ZC'   7 84" 4   4885 1' 49'   0 ' : 4 5' ('   ' 5'   ' (55' (1'   4<4   '   884 !' (?' (55!'   Z' 4 '   =5(8 4 ' 5 1'   5= : 34 48&'
: 7   4584' ' 5'   = 1 !'   5 <=2 ; R4584' (: ' 4=' ; =5?' 7 1' (' ' (55='   M!'   4887 1' 49'   5   2' (' ' 5'] (22' (1'   4<4   ' (?' (55!'   '
4 ' ?4' (55=' 4G58' = : ' 7 (2" 8' 2458 ' < (4 1' 4G78'   = ' 22 (55 1' ' 5'] (22' (1' @4   45' 884' ' 567'   '   4   5 (5 4'   '   4 : 4   =!'   ; ; 4@   ('
@' 8 ; =@ (2" =   ?25 (' =54' . = 1 1   '   ('   (' 5='   (@ ('   ' 5'   ] (22' ('   !'] 4 < 7?' 8'   '   ' 5' 8'   ?=5= '   =5 (8 4 ' 5 1'   .   '
87@4 '   4   457 (1' <27   ' 75" <75? (' ' (55='   !'   ' 7 ' ' 5'   3 =5!'   ' 4 : 4   " (?' (55!' 8 5 1 !'   ' 4 1 (; 358' = : ' ' ' 1'
4G78'   4<4   '   4 ; 4' (?' (55!'   M'   42' 7 ' ' 5< ('   - !'   % ' ?4' @2=   (' ' 5'   4 !' 0 ' : !'   !   !'   5? ' ; ' : ' 8' %= ; 4'   7 8478

LC " ' !

! !

K. 9 ' !' JH I '&@<'" <) #J8' #' q K '

' X +X' # 2' !' 1 - ' ' F# ' <8U 0'

E# # ' #' ' q !' #2' ' # + H## 22'

8' ? 28182# ' 7 ' ;2 #2J ' " ' '

' 822 ' J 82' ,4Y' Y) _' J # H' 8

#Y s #22' <'';;!' < ' 1;2 # H8

#28' _' U 2 J822 J' 8' .2?a J D) 22

9 ' ' $+ 82XF ' - ##' J8 + ' $8 E '

' SF ' $8 E ' JF ' XXX' 8G# F-' J8J#E# '

$+-82#F ' F ## 8F #' +# H #' # ' SF '

J8J#E# ' ! GF-#F-' 1#2#F-' & 2E# ' 1#2##' 8E# '

/#2#F-' 82J Z' I#J +' 8+ ' # 8 ' 8 22 0'

JHF-' G+ J#2#- ' # F-' H - G#' 1#2##' &

2E#' JF2 #' # F-' + F #' -0'

8+##' GH0 #28 -#- ' 8 ' J822 J#' 1#2##'

" 2 -JH 22#

K. ' 9 ' " !' e! ' ? 28 # ' % <')X '

F ' 8' 2 #JH 8' 8' ? 28hH ' # 8'

' ' ' ' I_ 2# ' s_ 82 hI# # #' #' h ## 0'

8H hH' _' J#2# ' ,1Y' .)?4)' # <8' 8

#18#< ' xc!' 2 282 18<

9 ' " !' : F#8-' 8E #' <#-J <#' ! X0'

F ' ,BCY' FGF2 # ' EF +F ' 1#2# +F '

2 H JH# ' 1#2##' 8EH#' ! 2 8 -#- ' ' G80'

#8 -# F- ' # ' 28 E# ' 82 E+ # ' #E'

8- ' +-' & JH E#' 8 ' 22# ' -8E8-'

-+##' 1#2##' - ##' <8+' 82 E+ F ' ,BLY

?22' <#F#2 h' 8# ' < ' 82+' <' ' ' EF < h'

< ' 8 # 82J' < ' <8<' <F '$n(' D)< ' 828'

< ' 2#' 8< F#22@ ' 0

2 ' ' ' #2#<' ' F#2# ' ' 8 <J ' < ' #<'

?' 8< ' JF#< ' , Y

<' #' $ ' ' 8<F ' ' #<' < ' c'

F#2# ' 8#2 < ' , IY

' 28 E# 8' SF 28' +# F+ - #' # F '

+F ' +# #JF '

' -# ' +# F+ F ' 2#SF#E' # ' -8 8+ F 0@'

F #' +# F+ #' -F ' 1#2##' ' 8+ H 2## ' ,. Y'

/+F 8 F 'SF E' +# F+ I# ' 28 E# F '

' I8 ' -8E' +# #JF ' - GF# 8F '

! #-' 28E#J ' # ' - 8JF2 ' 8 8+ ' ' 2 '

82 E+ #

BrC' K' '22'" (42;=:(' ';2= 48' 4 (5 ' !'!' @ ' Z' B' :'?!

B C' %'?4' ((2= 71' 5=8 71' .4 71' 0':4 5284' '5' .4 ' 0':!' ! ' 4 ' E(8471' ?4' }5 '6!' 0':!' 4?!' ?(!' @(' , !) =5(2 '1' (' '(1' '=' ?=!' ' ' '?'& 2(5458'8' =;;'8(1 ' 4 ' 4(22(;371' (@7?' # - @ ' ' 1= &' 771 ' ;=5845 '75 ' <4 4' =1548!' 4(22(;3' 1= 41' (5 4' =5(22' 54;4161=57(' 2(5578 ' 4 ' =?7?(!

B C' PP1 #' #$ B' 3 =5 ;= !

B C' K' ' #-' # B' ' :'?!'

B C K' ' '1 - ' ' # ' #'1 ' + ' + # B' :'?!) 5' 4 8':78' (5 '67'8' (' ' 4 5(;3=' 84 ('8 ' ?'<<';'24' 48 ' 845871'4 '4 4 ' 5=5' 1=?=' @ =@ 4 ' 4 58 (41' ?'=1 ('8 ' 84?' @ 4;'@74' 67'(' ;=5 49 71' 5=5' 3(:41 78 ' ;5G78' =@4' 49;4 @ (' 5'1 '51' : 4 '(' 49' 5; = '8' 8;=@= ' @245'78' 4 ' 142'78' '5?((H' @=8845 !

B C' %'?4' 55(2!' 2 !' 4 ' % (!' ;71' 5= '8' (?' 375;' (55!' 49' 65':78' ;=58 (' '?(551' '5?'8<(545841' @1!' @ '?!' #(2!' 4@ ' =:''884' (55=' ' 4 ' 6='?41' '5?'8<(5'A ' 7 ' '5' 4?A' 0'8 !' ! ' ;!' Z' 4 ' , ' 7:'' 4 ' 84@72 ''8' 48 !' =5845 ' ' 3 =5!' (9=5!) 4=?41' (55=' 65=' .49' 8V'=58' 2' =!

B MC' (;4 ' ?4' :'8' 3 =5!' (9=5 ' (?' 375;' (55!' 4?' (?' (55!' - ' '565') K' 0P;' (55=' 8V'578' .49' <7' ' '5 4 &' K' <4; 78 ' 9'G'' #(2!' 4@ ' 4 ' (::'54' ;' ;' 4 ' 9'' ' ?'4:78 ' '?(558' @8!' ?44488' ' 84;75?=' #(2!' 4@ !Q

B- C' (' '5' (; '8' 2' 4 '8) K' =5 48']42:=4' 54;' =8' 54;' @27 '(' ?48;45?(' 87@4 ' =8 ' 7:'' ;4;'?4 75 ' <= 48' 8 (4 Q

/ !' <=p&2 ' ! ! ! !

!' $ ' " 4835 '4' sU2:' bU4 ! !' e '
L'?;3 bU! x K ' *224:2' ' ' * 2:!' 27&'
o + ' :=' U 45 bU':' 1' / # '
' ! ' ' # ' + '
22:!' B 2454:@=;:'U':3!' 2~5bU'G'4;' ; ;3bU'
;37'24' ='bU1' " ^ ' 7'2454' 1 4' FU=&'
G#U' #U'5' !' 3!' *U '2 :4' DUbU42 t4;3' Z' <'';7'
`5 # ' # ' 7' bU "14' 1 4' L7': '4'
!') ` E' % ' ' # ' 1 # '
'U'1'5' 5:@' 4bU2;@bU' '

!' bU5J U4@';:' 1 4' =;'U2 1!' ; =&'
2 '@ ' 1 4' *LU=='; :' - ' # !) 22&'
;bU5' '54' :!' =54=:: '<" Z' U1:4:7' '
:@' U:75')) Pbb;37bU' Z2:' U4@5?) '
=5bb'22' 1@!I) bU;3' '@;'D' L4=2 ' ?'
=5:<=' ' ' ' DZ ?D4? " 1 4' =1?1'
!' :!' DZ ?14!' 45: @?42?:3' 1 4' 428?5'
Z' ?45?4:' 1 4' :?';1' D !' :!' 1' :@'71'
:@(U;54'!" # ' # ' D%H?42:=':' 1 4'
"7':R'4' R ' D !' ' ' B C

!' =21?5' ' 1 4' :!' 422:7': ' Z'
@54' :?' Z2:!' 27?5?' :' @?'@:
$ # I&) P=12 1?'22'
Z' D2?-?22?Z;: ' Z' Z24P:?
:4?4@?' 1 4' 71?1' ?' 7'::' " IUU*U:@?;:

9 ' # F-' !8G#8 #' #-' 2 8 ' #'8 ' K.A
1#2##' /# JH #' ,. Y' : F#8-' ?8E #' E8 #2#-
#-' 2F -80 J0 #-Z' &8' " 28 G##-'
#-8' 1F#' #-' #E' 8- ' # +F
F-' JH8####' #-' - 8+##'
< +I#' < #-' $+-82#F ' +8J8--F-' + # 8'
' SF ' J8J#E#' F28 #F-' 1#2cF-' / +
8X' / 2G# +F ' 82E8 H' 8 ' JF' I#J
+8-' 8+ ' FG 8F-' 1#2#F-' ! F 8#'
+ FF-' 8- @ ;# 2# F-' $ < ' H J' 8
< +8' 12 +F#' # # 8F-' , -Y' -
8+##' -F2-8' 82 +-8' + FF-' 8-
9 ' +-' /8+#JH#' 1#2##' ' 2F #' J 0' K. '
2 +G#F-' 1#2#F-' / H#' 8G#-' $#J +F ' ,.AY'
2 F-' E8' 1 #2#' ' + ' 8 ' /# JH '
' +#G F ' SF#8I8+F ' & JHF ' -'
/8+ 8 -#-' ' , ## Y' # F-' 22#'
-F8 #' $+ 82#F ' !8 2 8' +c8 2#-' # 8+'
J#8 -8-' # ' SF ' J8J#E#' +J #-'
1#2#F-' 8+ #' 8X' #' # ' 8 1 80'
2 E#F-' 1#2#F-' 2G #' 8 ' 8 JH##-' 1#2#F-'
#' 8X' ' +#F # +F ' +81 88 -#F '
I#J +8-' 8+ @ 82E E#F-' 1#2#F-' ! F 8#'
8X' #E#-8' + FF-' 8-
9 ' 2 F-' <#-J <F-' ' 822EF # 0' K.B'
+F ' 8 ' -8 #F-' 2 GF-' EF ' 8-'
2F #+ +E8 -8-' #8+F @ E8-' /8+GF0'
-##' 1#2##' & 2E#' 8 ' /8+GF-##' 1#2##' G 22 0'
JH#' 8 ' 8EH#' ' 1#2##' F #' <8+' '

B C' 4875 ''5' !' =?24'(5=' 2' 4 A' ' '49 (5 ''5' 3 =5!' ;=!

B- C' 41@4' ::('8' (' =271:(' 7 ' 87@ (' @(!' -' 5!' Z' 4 ''5< (' (55!' -Z!
B-,C' 0';' @ =;''2' ?7:'=' 4 (' (2= '78' % ' .49'* '; = 71' 2:(5'(N' 67''G79 (' : =5!' '; = !' 4 5('o' (5528' ,'
(:' (55=' !' (' '5m4 =57 ' 67" (' ' #4554 371' ' 7 '5" 3''51 ' '; = 71' .4 41' 141= (" (' ' ; &'
7(;3=' (?' (5571' !' 41= (7 ' '5' =?';4' 0':4 5';=' 455'' ' 45G58' 49;4 @ (' 4?'?' '] ('(558' 7;'78' 7:"
4 7(884' ?';' 5 ' (55'8' 9'9!' 4' 4 ':58' '; = 71' '?4' '5< (' (55!' -Z!
B- C' 0 (7?' '1 141= ' <(1 '2' 1' @ =@ '(4' <7' ' ' 41 (;3''8 ' 67" ?4' 3" '77'=5' 1' 845 4 ' '!' 4!' ?4' I =5= 71' <(1 '2' ('
84' = 7'5' 48 (7 !' =5 '57(= ' 4G78' (?' (55!' ' 5 ' 87@ (' '5' =?!' 48; !' @!' ' 5!' !) 4' ' (5= ' '?4'
.4 !' 0':!' !2!' 5?';48' =;4' ` ' 5572' 2 !' @(!' ' (?' (55!' - ' 4 ' 5572!' %' (!' (?' 475?4 (' (55!

A " ' !

!

6/2# H 8')9)U# F#J _' P#)JH# F)#J X)' 8' ?A28KHD)') ^D)###8 KD)' m2#' 8_ <D)JH' ,. Y' D)JH 0 4<EEFD' EF)#<J' <8' 2 <J9JH' 8' 6/22++0' R<<D)#J' ,)Y' U ' <F#E 8' #' J <8HD)#H' . + V' 8D)KH 8' D) # ' N' 1$ FD)' 8' m DD# ' y28 ' m # ' 8' D)#28 HD)' !' f' ?m<F<?#+F' ' K ' " ' ' ?m<<D) # E# s#

_2J D)#<')F< F' 2D)' 28@)2 J ' ' ' ' D)2 0<D)#' H8@ D)JHD)#<' ' 8' - 82 8 ' #') #- ' D)J JD) , Y

I^ Q' 'K..' '2% # !

K.K 9' J' q/m<28 8D)# H' !' !' F ##F10' 8D)8H 8' y2#22 ' m 'H' <8 J D) '# ' <F 0' D)22' F# 8' U2' 8 8 #2' D)#' " ' !@ D)JH <DDI J8' # ' + ' !')' ' 'nnn' # ,2' ' <<F' " ' !' , Y' <F D)82' <F#2 ' 8' < +F) ' ` !' D) ' 8< D)<@ ? 2 JH88+#' #<# E)' 2 <<' _' D)#288 8' '2 J <D) @ .F 8D) H' 8' ?A28 DD' # 8' !' f@ )2 # H 8 #' 8' 20' D) ' ` !' +9)8 J , Y' !' f

/# JH+ JH -' E 88 -8-' &# + # #F-' 8' 2 H JF-' EFd' 1#2##' 8EH#' !2 8 -#-' EF ' 8G8-' 1F8+8' 8 +#-8' $+ 82#F ' < 2FE -#' <#' !+ H0 E + 'G8- F 'JF ' 2 + JH ' 1#2# ' 1+ 2##' 8G8' $#8 0' +F F ',.BY' # ' SF ' JJ#-#' -F ' & 8 0' EF-' 1#2#F-' G#' 8 ' G 2F-' 1#2#F-' #' ,..Y' EHF-' #+-F F-' 1#2#F-' 82J Z' + FF-' 8- ' /F+-8F-' # ' $80' + ' ## ' <FE' /+ J -

$ 8+' /F+-8#' + F' J2 +F-' #22F- +#-@ 0' JH# '8' & 2 + E##-' 1F# ' 8+' 1#2##' J E2E#' F ' 2 +' 1#2# ' 8G#-' J# 8' ,.KY

$+-82#F ' /28-J JH8 -8' F #' J8J#E# ' F0' F-J JH' 1#2#F-' 2#2E# ' 8X' ' +# H 0' +F ' # 'SF ' +F 82' 1#2#F-' !F 8#' 8X' 2#8 82 8' G #' I#J +' 8+ ' $+ 82#F ' $ 8' 8G#-' ! X F ' # 'SF ' #<-8' JF ' >>>' 8G# F-' ,#'8' H #-Y' J8J#E# ' -0' 0 #F-' I#J +' 1F# ' ,._Y' +-' +F 2##' JF- E#-' $H +8 + 8' 1#2##' #' 8G#-' 0' G8 #88' F- + 2#-' # F-' HJ8 ##' #+E 0' G2 --8 -#-' - 8+##' 8 ' 2J8 ##' H0' +8 -#-' &F JH EF-' 1#2#F-' 8EH#' !2 8 -#-' + FF-' 8- ' EG 8 F-' 1#2#F-' 2 #' 8X' J# -' + FF-' 8- ',.CY

B C' 4875'3A;'?4' '(1' '=' 4' 2(31(;=' '5' 3 =5!' ;= !' BrC' A' # ' ' ! 1 B' 3 =5!' ;= ' B C' 0A;'?4' 7 84=' ?4875' '5' 3 =5!' ;= !' B C' 0(4;' ?4' . 4 ':78' (9=5' ?4875' ':! B C' 5' : =5!' ;= !) K' i3 - <' ' - ' ' '1= 558' 48 !Q

B- C' (2= ;(578' ' . 49' '; = 71' <'2'78' 7< 4 ' (55=' - ' 4 5('' (55!' 67(7= 'If (' 3 =5!' '4 !' %'?4' '5< (' (55!' - !
B--C' 0A;' 4 '?4' @ A2'=' # @ # ' 3(:45' 55(2!' 2 !' (?' (55!' - ' A A' = 5!' - !' 4' 4 ':78' =55(;'A! %'?4' '5< (' 5= !' - !' [!
B- C' %'?4' 5= !' (?' (55!' '87@ ('4 ' . 4 !' 0 ':!' ! !' 5?';':58' =;4' . #
B-ZC' 3 =5!' (9=5' (?' (55!' --' (' ' K' 0=;' (55=' 45?('@4 '' ' '5' E '5V'?' 2?('4 '999' 4' @ ='4' . 4 '(' 7;48' ' K' 67= 71' 67'?41' 4 (5 ' (2'67" . 4 48!Q' (?41' 3(:45 ' ;51' \ 4 5(;3=' ;=5845 '45 48' (?' (55!' A A' !' - 4?(' 2= 45 !' 3= 5!' E 48 1=5!' 2'" (145';71']':8=5=' 4' 884 '=' 4(?41' 4<4 =5 ' (?' --!' 55(2!' 2 =5!' (?' (55!' --' A A' !' - !
B- C' . ((22(;3" 7;;488=' <7' ' 0 # @! ' 67" !@ ='5?4' <7' ' . 4 71' 3 '8 '(5= 71' =55(;'A' ?4;'178' 7' 87@ (' '5' 5= (' (?' (@5' !' (? 54571' 1= 771' 3=;' (55=' - ' 141= (' 3 =5!' ;= !

" ' 0 ! ,

!;!

9 ' e! ' 22+D)# ' 8'2#' ##J 2#D)#1# ##
4! ! + ' e! ')F# 8' 8' F#U 0'
JH<8'?y2 '28D)' g)JH |828 ' #' M # t!' '
8' #D)# @ + 2DD<8E# '
8' ?22 #<###E# I2 ' <F#J 8 @ e! ' D 0'
8' #228' #E #8

9 ' 82 2#- ' 8' I;2 #28JD) ' 2 '
2Yn#F @ U;2 1#0' 822D)# ' 8' D)1D) ' M2 '
JH+XD' #<8' U;2 8 FW)' 8' 2 #F)# ' ?!

9 ' 1J# 9' ' F ' 1 ' 8 8' _' F 8'
1<' 2 _28 K1# D)' _' #22 #) ' b 0'
HF# 8' _' hF J D) ' 8' _28 D)' # 8'
' ! @ ,mmY F ' U#8 vJ' 8' 88H F0'
D)# ' _' 8H ' 8' 2 # - 8+# @))2 #0'
<' '7 # ' !

9 ' * ' ?m< D) ' 8' m2# 8 D)' <'
2 D) ' ' |D) 82
<' # D)<D# ' E8 ' J ' 8
2 #J J' 8' _28 HD)' ?U 8',)Y' #'
<D) E D)' '1' 8 D)#9) ' 8' FD)J D#0

9 ' : F#8-' 2 # ' +' ' ' K._
!8< 8 ' , . LY' : F#8-' ! F 8# 1#2## F H0'
+8# #-' ##8 -#- ' , K Y' $+w2#F ' &80'
28 E8 -8' # ' SF ' # 8+18J F-' 8- ' 82E8E'
1#2#F-' G#' +-' 2 +J # 1#2##
1+# H# 8G#-' $#J +F ' , K Y' : F#8-'
G# E8' #220 ! 28# H8
+-' 822 G## 1#2## 82J Hw' # ' +J8' K.C
8G# ' 8 #!' +-' 822 G## 1#2## ! + #
#-' H w' G w' JHF ' 1#2#F-'
0 +## SF#8 I #
9 ' &# #1' #G8+' <-' E8+8 -#- ' 8 ' K.L
F # 8F-' <-' +# 8 -#- ' 8 ' ! #22 F-'
< -' & H# #-8 -#- ' 8 ' &F JH EF-' 1#2#F-'
8E # ! 2 8 -#- ' + # -F ' wE8-'
+8E # 1#2## ! 8JH F- G## ' 8 ' JH# # 1#2##
EG 8 # @ / 2 E# 8+ -' 8X' / + J +F '
040
9 ' # F-' / # # 1#2## # 8E# <#-J <#' KK
2 F-' " 2# E 2 JH8 -#-' # ' 8 ' & #82'
< -' # G + E8 -#- ' # F-' JH E## 1#2##
2 H JH# ' 1#2## 8E # ! 2 8 -#- ' 0'
22F-' + E H ' + FF-' 8- ' G 0

B$C' 0(4;'24 75 7 ' ;= 7@ (' '5' 3 ==! ;=' '(?' 475?41' (5571' K' ' 1=' % ' @8' !'54 4' 5' ! # ' C' '
K' @8' !' #' E t;!
B WC' : =7!'@ 84?'; 71'3(4;'3(:4 '@=8' 'A' 0 '. '#' # - ' 'M - $ G

B-MC' 4' 4(?41' I =5= 71'<(1'2'('= '4 (5' (578' '8 '4' ' 4 5(4:78' '@84' 541@4' ?4' <(1'2'(' . 4 '(' =58'
5(;'A!' %'?4' 87@ (' @(!'2 ' 5= !' ' 48; !' =?!
B C' 4 '4578') # '<7' '(' =271:(!' 7;;488' '4') ' 5:5478!' 0A;' 4<4 =5' 55(2'Y2 !' (?' (55! 2'
65' 48 '84 A' ;!' -,!' :' ' ' =271:(' (55=' -M ' 42' -MZ!' 7;;488' ' ' ' ?4<554 78' (55=' -M ' ?4'5?4'
. #- '(55'8' , -' (?' (5575' , '67(78' - '(55'8' , M (?' (55!' 3754' -,!' 4 '45' '1' 141= (5' =271:(578'
@!'9' ' '5' L22= 4' ?(15!' ! ';!'g' !, 'e!' ' 4?!' ! ' ;!' -!
' B C' d ' '8' . 49' '; = 71' 2:(5'A' 7 ' '5' 3 =5!' '; !' 41= (7 ' 4 '(1' '5' 4 4 4' 0':41';(' 4 8'=54'
455Y' (@7?'] ('(571' (;'71' @(!'M & !' K' 5' 0':4 5';(' 455' ' 4 8'=54' @4548' 14' ((2= (8' 48 ' . 4 51'
[['; = 71' ;=G78' @(41' 3';' 493':4= ' 7 ' 4; = ' ;=58 4 ' 42' ?' 4 8=8' 4G' '8?41' 5=1'7'8' . 4 48' '; '8' 4 ' ! ;= '8'
K' 1@4 (884' 42' 67=?' 4 =' ;=5 45?=' ;= =8' '; = 71' . 4 48' 8':' (= (884!' # '<'2'78' (42;3=5' ;7G7T'
K' 5=5=' . 4 5' ' ! P2=1:(1' '5' '(55'(5' 45'884' 4?('84 ':' ' 4 5(' '(55'8' 999!' 0 '<'2'78' = (35(;3'
' ' ' 7 '54@=8' %4 @' (55'8' 99' #454 378' <'2'78' = 3 '5' 9'9' 0 '<'2'78' %('?' ' '!) 7?478' <'2'78' %('?' !) '
K' 6#'< (4 '4= 71' 9' '!) :'= ;(5' <'2'78' 5< 4' ' !F) 0';'48' (2= ;(5' ?4' 67=' 87@ (' (' ' ' 4 5(4:78!

A A " ' !

! !

b.(!' ' ' ' ' ' '
'7'-3" ' 2bbZ '-! 1! 75;3! ' * 24 bU
202 #8' ' 8 ' 1-#)DD8| JJ ?m<8< #D# ? ! !

KK ' 9 ' 8 8' ?y2 ')) ' ?22#U D) F)J D)' ?!'
2 # #8 ' 8' 2ZD)#J ' D) ' bD)# ' ? @'
#D)# ' ' |D)# J' ? 2 ' 28#J ' #I#U# ? @'
F # 8' A2 D) ' ' u, ' " !' 0'
< 8' 8' 2 E' ?!' e ! ' 8 8'
0< J ' ! !

KKA' 9 ' 8') JD)' & ' !+' R ' '
!' ' T H ' <# D) ' ?!' D)82 F '
8' 28 D)' Y8 D) ' !' @ D)J ' D)U D)# '
J' 0 < D) D) ' !' ! !' 9) ' 8'
D)2 #JJ' 8' 28 ' # 8 ' _' 2JD) '
8' < 8' m ' #D) ' c!' w' 8 <D)2D) ' 8'
8<< 8'] !' 2m# D)0 #D) D)' #')' '
2#) J 8' 8' 28 E' # 8' " ' f' , 1Y' '
' ,eleY' |F) <)' 8' 28 HD)' # 8 '
?!' ! ' JHF' 8' T D)I D) ' _' J) 82 #20'
J ' _' J D)I0D)J ' 8' m# 8 ' ' `' '
qm<D)82JH ' 8' D)82 #' @ 1;2D)80'
D)J ' 8' ?<# # 8' I #' ' ! !@ '
' # ' 2D)J D)#J' ' !' ! ' _

F-' 1#2#F-' F H 2 #' + oF-'8- U' wE8-'
/ 82JF#' 8G#-' -- +#w' <8+' G8 #8 -8-'
2#2EF-' 1#2 ' &F JH E#' 1#2 ' 8E#' ! 2 8' SF#0'
8 I # ' 8E JF-' / 8+ 8 -#-' <-' ## ' , KAY'
9 ' 8 8' -' <#-J <F-' +E 0'
J F-' SF#8 I # ' EG 8 F-' 1#2#F-' H#'
2 #01 J#8#' SF#8 I # ' G#F-' '& # '
-' - 8+##' 28J8 -#-' ! ' +#'
SF#8 I # ' F # 8F-' -' E' # 8+ # '
I 8 # ' G <F-' 1#2#F-' ' #' SF#8 I # '
: F#8-' F # 8#' 2 # ' UFX ' 2#SF -
R 9 ' F # 8F-' 2 F-' ' w #-' XX##'
+ FF-' 8- ' , K Y' ! + F-' ' +#E '
SF#8 I # ' 82EF#FF-' 1#2#F-' 8E#' 8 E #'
+ FF-' 8- ' $+ 82#F ' G #' <FE'
J + E ' F #' J8J#E8+F ' G#F-'
1#2#F-' G 2 G#' 1#2##' 8EH#' ! 2 8 -#-' 8 '
> 2 #-' 1#2#F-' + # 8#' 8X' # J w'
8 ' 8 1 82 E' 1#2#F-' " 8+ +#E8#' 8X' +E0'
JH w' # ' SF ' 822 ' 2 H J' 1#2#F-'
8EH#' ! 2 8 -#-' I#J F-' 8- ' ' - J##-' &# +0'
##' 1#2##' 8E#' ! 2 8 -#-' SF#' E#JF F+'
JHF' 1#2#F-' ! + #' 2 + F ' 8 ' 820'
#2J ' 8 ' H - JH' 1#2#F-' + 8 #' # ' SF '
822 ' / 82JHF' 1#2#F-' 82F w' J8J#E# 0@

BJC' 4 1 ' 3(4;' @=8 ' 'A' ' < ' ' ' ' ! ' B
B C' 4 1 ' 3V;' @=8 ' '; 58' 48 ' K' ' ' # ' ' ! ' '6!' ?!5 5 ' B'
B'C' 49 '' 1 ' '5' =?';4' =?24'(5=' 3'4' ; = 7@ '' 1 ' 48 ' 5'1 58' 49' =?';4' !' 7:2'5' ;7" ' 7258' K' 3 =5!' ; = !Q'
67" 5'3'2' (2'7?' 48 ' 67(1' ' 4 5(; 3" ; = 1 @45?'7 1' @ =@ ''8' 4 :'8' 7:'674' <4 4' 84 ('8!

B ,C' :'' ' ('?=;78' '5' (55=' A A' ;=1!' , ' '1 = ?!' @!' M - ' M ' 4 ' !' 7 1' 1 4 1 = ('] ' (2?78' '5'
=@= !' 0':!' '8 !' , ' ;!' Z ' 4 ' '5' ' (' ('?'8 ' ' 4 1 674' (7; = ' 4 58' %' A' =27A ' 4?' A' (' '4 ('5 = ' ;7 1' ' ('
4 ' =@4 ':78' =25 1 : (5'!' (5?5:'78' . 49' (45'A ' @=8 ' ;A87 1' '5' 75:=2 (5=' @ A2'=' q ?'' 1' 5 1 ' 4" <'2'7 1 '
0':4 5'A' . 4 4 1 ' ;4 1' 8'' (1' 4 54584 1' '5' 84?4 1' ;3'4@'8;=@(24 1' ;=5 ''2'884' ?';' 5 ' '5' %' (' '8 (!' (674'
5 ' (:' 7'':4' 24:3 4458" (?' . # ' ' (' @=8 4(' (' 4 5458" (?' / # ' '5?4674' (?' 7:2'5'4584 1' (582(('
<7'884' '?4(7 !' '1 ='?!' @!' M -!
B C' 7 1 '5478' U\ (8 ' <'2'58' '(;\1(' ' ;;'?;5 (2'8' =1=5'A' . 4 '8 ' =:'' ' (55=' , ' 55(2!' 2 !' 2'58' <7' '
! $ ' ' : : (8' 0''458'8 ' 67" =:'' ' (55=' 84 A' !' M' ;7" ('2:458' 87;;488' ' (55'8' 9 ' % ' (' =27 1 : (!) '
x '<7' ' 7:5A78' <'2'78' 7 3 '' ' 67" 0'=5(1' 49' ' (55'8' - ' (:' (55=' -,' (?' -Z!' 07G78' 1 4 1 '5' ' ?((5!' '5'
%' (' =27 1 : (8 ' ! ' ;!' ' !, ' ;!' !' %' (1' =25 1 :A' (' 5 1 '54=' 8; '@ (1' 4?'?' ' (:'22=5!' '5' ; '8' 454?!'
2'78' <7' ' '?4' @/ #' 67" =:'' ' (55=' - ' ;7G78' 8(2 4 '7 1' 87=' 4 1 @= 4' 49 (58' 1 4 1 = (' 884 !'
@('MZ, ' 7:" '567' ' 84' @(4 1' =?';'8' '?'884!

" ' ! A

A ' # ' I_D)8#<FD)#7 J
< D)###8 #E+F)JHJ 'E #!' f@ J#I # F '
q2 ' F D)h# G ' I_D)8hF# # 7P -' ?m<F<D)h#0
<D)# ' hF<2 ++' ' ' 2#+F) ' 2 JJ9JH
?! 2+F) ' H# 2F<D)# ' ? !V +T
/!' K ' ' ' ' 8JJ' 8

!' *U2': : 4' ' ' Z' : ' ;=2
' 2FD)# #0 J0 #<' ; # ' !F; !'
h H # ' 8' _28h2# ' ' ' _' '
8' 8<<J2#8U# ' , Y' ? ;2 <' 8
h 2 #22' ' <F_+2_ 8 JH' _' h H0'
_ _ ' __' F E_ 2 ___' _' F JH 2' _
< _ ___@ e! ') 8 ' _' H' F___'
U : P3' 2 4_K; : _@' _' 745=4' 14' F@1P2}_'
* 2: : P' K@(@5 ' '5:4 @; ' _' P'Z 1 Z' '
' ?! " !' 45P< 42 P3' 14'
' 2? h<' ,,UY

92' % , ' ' 22 _ _' ;2 #' ' '
' _' #' ' ' / ' '
"A !' V ' ' ' # ' ' , G'
' " ' ' 9 22 _ _' _ +F+0 ' (N(

8 JH' 1#2#F-' /# G# #' 8X' # 8'
+FF-' 8- 0@ #J' 1## -' 8G #' 2 H0'
JH#' F ' 2##' E#JF ' 8' # # #F ' 8G #
&# + # ##' ,KBY00000 821F E#F-' 1#2#F-' +0
#' 8X' # F JH 8' UFGF2 F-' 8- '
!J E ' -' FG E8 -#-' SF#8I# @0
82EF# F-' 1#2#F-' /F+ E+ #' 8X' &F+2 0'
-8 -#-' +FF-' 8- ' 22F-' < 0'
+F ' ,# 8' + #18XY' SF#8I# ' 2 F-'
' 2F- #G' SF#8I# ' ! EF-' F- #0'
+# < 2#' 1 J ' 8- ' ' ,SF #E ' ' 8X'
8E ' # FJ F+Y
9 ' "## +JF-' E 8F-' , 8X' # J#88Y' KK
+ #-' 8- ' 8' -8<F2 F-' <FE' 2F 0 #J0'
#-' FGF2 #' EF +F ' 1#2# +F ' EH#'
#'8' # 22#' 8' 2JHF#' <FE' +JH# E'
+-' " + H#' 1#22#' & 2E#' 8G#-'' ?$#J0'
+F ' ,K.Y' 8' & 2E#' 1#2##' F H 2 #' 8'
F H 2##' 1#2##' +G # @ : F#8-' ! G) 0' 1#22#'
' #' #-' 8 JH +8 -#-' 8' F80'
JF-' 1#2#F-' /# E2 #' -' /8+ 8 -#-'
288 -# +#F-' 8' &# F-' EF ' <#-
J <#' SF#8I8+F ' 8 E1 82 E#F-' 1#2#F-'
2JHF#' 8X' J#-8' ,' ' Y
92' 8 8 +#8' # ' 9 2' ##-' # ' H + ' #X'
8' # ' 8 E8 ' 8- 8' J 82F ' +E8+8' I#-F '
8- ' + 2# -' G ' # ' # T # ' <8+
I8 # ' # ' #<-#-' 9 2' FGF- #' # '8' # ' <

B C' PP' ' B' 3 =5!' ;= 4875 '3A;' ?4' 45<(42(?'=' '5' 3 =5!' ;= !

B C' %'?4' ((2= 71' 5=8 71' .4 51' 3''8 '(5= 51' O':4 5'(4' '5' .4 !' O':!' ' 7:" 4 ' 84 '48' a.4 71' 4'
5=1'5(' 4 ' 41@= (' ?'2' 45 '88'14' 45z (5 7 !
B -C' O';' ' O # ' =5(2?" <'2'78' % ' .49' '; = 51!' 3 =5!' '; !' .4 5(' '(55'8' ' R:!' '!' X!' (?' (55!'
375;' 1 (4' !' !' G78' @ 4?4;488= ' <7' ' (2= (578' ' 67" 4 5(' '(55'8' !' %'?4' 87@ (' @(!' , ' 5!' !
B C' (674']7('=' 85;;488' ' 45<(42(?!' 4']7('" =:' '' ' '?4' %' (!' (?' (55!' ,!' 72271' =55(;'(4'
.4 41' 5=1'5(5' %' (!' (' 1= 4' ` ' (55=' -MZ' 78674' (?' (55!' Z' 67=' .((22(;371' 141= (5' 5=571' 4 '
]''('71' ?4;'171' 3 '8<'(571!']7('" =:' 71' 4<4 75' (?' (55!' , ' .((22(;'B" @ (4?4;488= '8' (?' (55!' -!'
]7('=' 8(;;488' ' 1 '9' 7 "87@ (' '5' 49 7!' %'?4' (545' 87@ (' (5571' - ' 5!' -

A B " ! !

- - 2;3bb! { !) <= 8 # 4@_'bU' Hw # G8+## ,K_Y # F- 8+ G##0
J9 #2 ; 8 ?c28hHE # 8 ! #2 1#2## &# + # ## 1#2## 8EH# ! 2 8 -#-
KKB

B ZC 0'4 48 @ =;72 ?7:'= (5578 A A =1! 67= ;2'@8'8 =2'8 1(9'1(<(; ('48 #(2! ('' 4 @48 '245 '(
49(8' 67A ?4@=@72(('@ '78 78 (2" ' (55'(= ?(5371 : = 71 @ = '5;'(1 ;= '@7' 4 ''5?4 '5 0':4 &
5'(1 @4 45' ''5 * 7 78 =! ; 4 ';'(1 <7'884 8; ':' ' 7; = 4 78 ' (4] ' (2?" (9=5'8! 0':4 5';4 $ `
?'; (1 4(654 = ''5 0':4 5'('49 '5; =8 <7'884 (' 7 4 '('@(8 @=@52" (5 71 41(54 4 ! 4?('4(5 141= (
! ;! ,Z (55= ! 41! 4 (! '5 =;' ! 4'5@! ! @! --!) 4? 6_(1 '8 =9 $ <2(71 8' 5'&
<';(=9 5=5 # 49@ '1' 84? 8;(:'41!) 2(7 ('22(1 @48 41 @'7 ':78 ?48; ':' ' 7; = 4 =8
%' A 3;2'(" (@7?] (2< '?71 =551! ! , ;! 4 ''5 '51(34584 4 (@ (5= 4 %' (7?V4" '5 . 4 48 =
(5?(4584 '1 = ?! @! Z !] ' (2?78 ' 41 ''5 '5! (1 : ! '567' !, ;! ,! K 41@= 4 (18 5'8 =2458'8
[['5 745 4 @4 (1 : '(1 @48 4 67(?(1 67(;(4 ('1 @24:8 =;;7:7' 67(1 <'((1 @48 41 =;(:(5 67(1
K 4 3L8';" # ?';75 @(882=541!Q) 7; = %' A 342'(" '565' @48 '8 '8 '58 (4 7 ?484 (1 <4 4
@('(1 65=8?(1 '5 0':41'(1 @4 49'884 @2= 48 4 =! 7;4 342'(= (5?(458" @'8;=@= 8= = '8 ('?'8
454 458'8 <'2'= (? 1= ';(8 45 48 ;=5;488'884 87: 8@' ' 7(2" (18=5'8 4 '1 '54 7 5 ;=58 ' 7 (8!
342'(78 '@84 48 41 ; 4 ';'(1 ''5 @('(8A '45 41 <7 '458 (55= - (? . 4 41 =17:'A] 4 455'71 67"
=58 (5 '5= 85;;488' ?' 4 '884 24 ' 7 ':'?41 4 5(5 4 '5 (1 : '((2 =54 84? 3A; 5=5 ;=5 45'75 ;71
(55= !) ?(15(578 '5 ! '!4! 72 != 2': " , (' ' 4 1= (2' (4 67A 5=8 '8 41@= ':78 4 (71
K = :41 $ 49 @(4 (82(4 (1(G= 4! (1 7 ?4 ;A 4 '8 (;;(1 2('= ':''8 7 =@A 4 '=5':78 3=; 48
K (2'(4 ''@8(. =1(5(;' ' (4 4 '8(2@'5'8] (22'6 71 = '5;''8 0'8@(5'8 67=674 ' A5A" 145 '8 '5 4 G4; 7
K ?'8 4 1'5('8 ;4(5" 5872(4 @4 = 71 '?42';4 ;= '(4 ' (55'($ ';':78 (8 (A 875 ?' (@48 '&
K 245 '(49;4@ '8 ?7=:78 @=@72'8 3=; 48 '; = 71 @24:4 4 ;= = 71 ' (55'A '5 4 67=8 7 =8674 = 8"
K 1=5 48 ' (55';' ?'8 4 1'5'! 6=(1 '8 *7 = 71674 @=@''2= 71 5=5 ?4875 (5?'(@4;;((67':58
K @24 71674 (? ' (;75?'(1 A 4178 @ = =;(5 7?49 5 '8674 (145 374 78674 @('45 4 <4 458 '@84
A @;@4 ;' ! 7" (2'= ' (654 3A; ':5' 5 ('((4= ;=5'((5'8" ! =271:A ;7G78 =5(8 4 '(''5 (7 =&
K 71674 @=@52= 71 X 1'5=8 <''5?(((: 5 '8674 78674 (? @ A8458 41@=8 (2?4 875 3=5= '<';((t ;!
K =8 4 = 4= ('178 ;;4: (8 (48 67" 5=8 4 ''5 3'8 5=8 ''8 5872'8 = (5 4 @ = 5=:'8 5=8 = 454 (:'2"
K (=5= (1= (2'2(71 R5 (8'=5':78 ?X<45?' 4 ''5 (9=5'(4 41 2?< '? 1 '8' (5 48 (1';71 (?35; 5=5
K ;488(5 4 @X8 '245 '(4 ''572 =8 :'54 '5?4 ';=8 ?4 (8 (5 4 ' ' ((145 5=8 =1'5(8 4 '5 @ '1(@=8 :42251
K < '?' '8' ('=54 4 ''5 84;75?('5 4 G4; '8 ?7=:58 (5'''8 '5 (2" 1= (2' ('8 14?'= ?4(1:72(5 48 @4 R;52=
K 2':4 (' 7 54 7578 4 '(1 ?4 5=8 '8 = 5' ":78 1= 4 4 7 54; (2'65'8 49 4'8 (2'67= 1=248 (4 7 1= :=!Q
(1 4 = ?(15(578 :'8 4 (78 1'8878 48 (: 0':41'8 '5 5 2'(1 @ '1= (? < '?51 , (? 2?< '?71
4G78 < (41 4 87;;488= 41) (78(@ '1A <7' 67=? < '?58 0':4 5'(1 ''5 (84 ' 4 '?'A ;(1@71 41=&
45841 8@=2'(4 ' 8'54 522(;(78(5 '5 % ('8 = ! 55(2 (? (55! 4 ;= 845 '45 ':78 2= 45 '=
E ' = 5!(? (55! ' 41654 (3A= E48 1=5! (? 475?41 (55! 4 4?(0'8 ! ! ;! , !) (78(4 = 48 '&
7 '=5'8 @=8 72(5?A ?(1 (578 1'8878 48 @ '1(';4 4 (78 (? <''?71 7 "5((5 % (! (? (55!
7:" 4 @48 '245 '(1 ''22(1 ':78 (75'8 ?7 (884 (<<' 1(5!) 4 ,?(?(15(5" 4 ('=54 (? 2< '?71 . 4 41 67"
< '?= 1= 7= (55= 87;;488' @27 (:(:4 4?(! - ;!2 (? (55! Z!
45'674 = (2' (48 3(; 4578 '5 3'8 55(2':78 141= (4 875 = (2' (8 ?'; (\4<4? (? (55! - !
= (2' X8 (5(67(4 =;(7 $ 6 (? (55 - M&- 4 - ! 48 '8 67A =;(7 # (?
(55! -- ! 0(5; ''' '1(1 5=5572" ;=5<75?75 ;71 '2'(;7G58 141'7' ?(15(378 '5 (@! 72 ! !, 67A 4 &
5(5 ':78 < '?= 4 2?< '?= ' (55'(1 (8 (' (: (55= (? !) 4 3(; ?'; ($ 6 2=67" '?4 7
, 4! 7:" K " " $ '565' 41@'884 = (2' (41 67A ('(4 @7 7245 (2'71(@'8 '5 ;= @= ':78
K 4 ''5 @4;= 71 7:4 ':78 5(8;" <(;' # B
5 (5 '67(' (5 84' 4?' ((42<= '= 4 @=8 4((=2 (5= (? 9 ' (5! 3A; 24 75 7 ;! ,) K <(14 4
K 1= (2' (4 4578 351(551 4884 49(5?7 (65=?G(1 8' 5= =2'8 ;71 (?'=8 8748 %# " # (:8;=5?&
A '884 ''5 1=?51 75A 8@245?45 '8 8' 5'<';(71 48 Q
4 1= (2' (4 (55" 4 ?4 ;2'@8" (' 4?(! ;! ,Z 7:" '567' &)K 0A; (7 41 @2((0':41'(1
K 67=674 '5872(1 @(" ;2(?4 @ 41(:(!Q =5<4 5= (8 5=8 (8 (? (55! 55(2! 0' ! 4 55(2! % (! 4
: =5! (9=5 (? (55! !

" ' ! A .

! !

_' ' ' ' 8 A A ' _' # D)#
7 J FE#D)8 8' _' 8I#D)JH' , ' 8 hJHD)#1#
' ' ' ZD)8 D) ' 8' F' 1# E#J' 22 ' 2FD)#D)'
!' !' !' & ' / ' E#' ' ?)< J29)#U#J'
' ' ' ' , !' '
' K ' ! !' ,)Y' K ' k
' ! !'

92' ' ' # ' ,4Y' hFD### # # '
8' ?A 8 HD)' _' 2 2D)JH # J D)' m2#' <
_' 1 #D)82 <8<D)#2' 8' 1'#D)828 F ' '
!' #JD) #' 8' H#' ?21' 1 +D B
' 2<D)#< '
) ' qm<8#JH# #8' ?<D) D)#I' ,RQ0Y' ?)# 0'
8 ' _' F-8 ' #IJ)#U' 8' D)J D)#2' I #'
I;2F HD) #' ?@ 2 D)' 8' ?<D)#2 8')2p '
m #' 1 #F HD) ' D) ' 2pJH D#IJ' m2#' 8 J D)'
?28 # F<' ' _' ,;2D) 8HD) #' 8#JH' << '
, , ? ' # ? ' , ' k
' @ 2 DD #' 8' qmFF 2D)<JD)# JfW'
<J HD)' D)8## 2' ?2' 2FD)+F)0 J0'
#<Z' ,£Y' F DD 8' '
JJ2#8 ' 2 ' 2FD)) D#J #<' ! '
618JH #F D)8H' +-']$7(' JW' # m' 8' 2D)#JH0'
#8' # ' !

8 ' 8++W' F-' # ' +# # ' 8 ' G 0' KKB
F-' 1#2#F-' F H 8 E#' 8 ' 8+ JHF-' -'
8 JH +8 -#-' ' ' , #8+F Y@ 8E F-'
1#2#F-' ' + J#' -' H# 8 -#-' ## '
' J < ' W' # ' +8G# 8' / JH + '
8X +-#' + 2# -' <+# ' # ' # 8+ # ' '
+ 8' $ +#J##' ' JJ ### ' <+# ' + 2# -'
X X## ' , ' # SFwE ' E8-F *Y
92' + 2# -' G ' &# + # #F-' 1#2#F-' KK.
8EH#' !2 8 -#-' 8 ' 2 H JF-' EF '
8G8-' # 8+ #W' 8 ' 82 +8- 2' 1#2#F-'
828EF #' + F#' -F ' 2 F-' 1#2#F-'
' G #' -' 2F 0 + +E8 -#-' SF#8I# '
& + # # ' $8JH# #' / +8 -#-' , ' ?Y' / # 0'
G# #F-' 8 ' F0G8 ' H #+' 1#2#F-' H 2E#'
8X' #W' +#F F+' 2G ' 1#2#F-'
/2 #' 8X' #W' ' F ' 2 H
JF-' 8X' 811##8' GF-#F-' 2 E8 -#-'
8 ' JH8 # -' 82H8 -#-' <#-J <F-'
8-SF8' 8G8-SF8' # F 8+ #28-' + F#'
-F ' 2 F-' 1#2#F-' / F 2 -J G#' E8' F+0'
J G F ' ' -' 2F 0 J0 #-0'
8 -#-' F # F-' E8' J2#8 82 ' " +8G+ G# +F '
JF-' % ' , F J' G G5 ('
-' 2F J #-8 -#-' E + #8+FF @'
!8JH F- JHF-' 1#2#F-' 2 H \H#' +8G +8'
J#<#

B<C' K' ' 1= 4' ';'" @=8' 1= (2' (41' ;;9''!Q
BrC' #2' K' = (2' (8' 1(5(' '5' 0 '2'4 5'A' ! !' '$ ' B
B C' A' C' # ' ' - ' C' ' ' - ' C' + ' ' . - ' C' # ' ' B' 3 u5!' ;='
B C' K' ("$ ' !' :78' ?'4: ' (5 ' 457'' !(! ''!Q' !4!' 75= (55=' ':78' ?'4:!' (5 71 ' 45(' ' '1(71!

B C' !' 4;3'5" ' (1' (:' 5 78 '5=' ('(?(5' 8 '@ (1 ' 67" =:'' ' (55=' ' 4?'?'' @2 (5''8' 2'(1' 4 '(1'
4?'?'' 49' ':78' (5 '67'= ':''8' 0 ':4 5';'8' (' 84'@8=' ;=1@'2((1 ' 6''(4 '5' 5=55722'8' @(51' 8':" ;=:=4 4!
4;3'5" =5(8 4 '71 ' ('54' (= '(1 ' 0 ':4 5';4' @ $ #') ' / # @ % #' (5 ' :41& ': = 71'
?'94 R8' (@@422('1" '5 45'=!' '1= ?!' @!' M ' =8549 ' !' 7?' 3' ' ' !
=?41' (55=' 7 (2' ('8' 3 '8 " 541@4' ' =:'' ' '24 (578' 8(@'458' 45G78' '5 45'" 75';71' =55145 5'5'
42'6771' 3(:4 (78' ;=" ' 7278) A' % ' '% ' ' # % - ' 0 - ' # ' ') ' ' ! # % '
' % ' % B' 5 45' 7 ' '5' 4?52'" 75'= '8' 0 ':4 5458'8' =2' 4; (54=' '5' (345' '
(674' 4?' 71' (' 241 '5 = '5 4 ' =@4 (' =271 :(5'!' %'?4' 55(2!' 2 !' (55! ' (4 (4' ;=1!' !

A K " ' !

! !

KKK 9 2 ' ' ' ? 2#2J) 2 # 08 #?#' ' #+#J h # H0
#22 + J 28 H ' - ? 2# #U#8 JH m2#
1#F#E# 8 ' 1` 82##Fy ' 8 JD) # #2 ' 12#
8 8 #2 #<< ' ! ! J2# # H 2 U 0
2 #JH8 U ' <F#JH 8 I_ # ## ' 8 ' | H# 0
< JHJ 8 hF #JH ' U2 ' 2# ' ' Y1##F ' ? 2#
! ' , Y I_ < ' 822 # ' 8 2 2 H #I 8 '
E#) ?8#<J18 #J ' 2JF ' _ ' <F#E 8 # ' ¡ '
JH #4 J2# 8 2F#1#J2 8 ' #JH 8 _2 '
8 J #1# G ' ?m< 82p # J 2 # ' I '
{ ' 1 ! ~!

9 ' +- 2#2E#0 / 2 08-- 8 ' 1#22# & 2E# '
1#2# ' EH# ' 1#22# #+8c ' 82J JH 1#2# -
! J F2 # 8X ' $#J +F ' 82Eo# F- 1#2# -
! J E 2# ' 8X ' J2#8 82 - + +8 +F ' f0
+F ' JH E#F-0 +2 H 8X ' $#J +F '
#E8 -# ' + FF- 8- ' &F # +8 JH '
1#2# - & 8H E# 8X ' * F8 G '
+ FF- 8- ' +- 822 G# 1#2## > G +## @
$+ -2#F ' / 8+ -8 -8 # 8+ 2#E# - 8 ' $#J - '
' SF ' J8J#E# ' H - JH 1#2#F- +JH# 8#@
H8 8F- - 8 8 +8 -#- SF#8 I # '
/ 82 F- 1#2#F- 2 # 8X G8 # -
+ FF- 8-

KK_ 9 ' ' ' ! ?! ? ' _2 ' Y8 0
J #< W ! ' JH ' J ' ' 8 ' 2F ' _
_28 |
+H 8 8J ' 6/2< H ' _ ' ' ?) # 8 J8 !
J8J ' 1 $ ' 8 U#F #2 ') # ' 2YI '
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F

' ' ? ' 9 2 ' " # ' / ' ' ! ?! '
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?) 8 < 4 8 2F#88 ' < ' ' BJC

9 2 ' + 2# - # ' S ' SF F + 8-
8 8 +8 -8- <8+#8+8 ' 8+ 8 F- ' F #0
8F- ' 2F ' 8 ' 8E F-
$+~82#F ' +W8 # 8+ + E2 - 8 ' ' / #G8 0
- ' F # J8J#E# ' G F- 1#2#F- +F 2## '
-E8- + # 2 # 1#2## 82 J + G# ' # ' 8 '
8G#- &8-# +F ' # -
9 2 ' I#G # ' 2 # <#-J <# JF '
+82#SF# ' ! J +F ' E # -F2 ' ; JJ 8
2 -8 ' # ' SF ' 1F E I# ' JJ28-# ' ^ , KLY 8 '
I#G # ' 1#2# +F ' " + # E # 8+0
#V ' JF ' <28 8 ! J# #J ' , _ Y
/ 8+GF-#F- 1#2#F- FJ8E# + FF- 8-

B C A < ' ' # ' ! G '! 4! 2(5' '4" =55(;'(4 '(' <2('= 45(5= (? 7; ; (1 ' t ; ! 7 ' '5< (' (? (55! Z , !
B C A . # B 3=?'4 42<(8 !
B<C 55= ' 7 ' 84 ' :55 ' 884 '78 4 ' (2'' ' 84? 5 ' 4; 4 8; ' :' ' ' 4 1 (; 378 (55= !
BJC A + ' ' ' ' ' 0 # ' B 3 =5! ; = !

B MC '8; 488' ' 4 '5?'8<(5'(' =2 1 (578 (55= ' 7 ' 8; ' :' ' 4?(! ' ; ! , ' 4 ' 4?'' ' '5 ('(1 ' 0' :4 5'(1 '
49 0'=5((55= -! :' ' ('=54584 =5(8 4 '= ;=5?' = @ = '8; '@52'8 (9=5'8 ' 65" 4'' 1 49 ' (55'(8445 "
4 (5 ' 84;488' ' '@84 ;5 1 ' '8; '@72'8 0' :4 5'8 '5 5872(1 %(; ; (4 2: (4 ' '5 1 (" = ; ; '?45 (2" (55= ' 5=5 (55= - '
5 ' 8; ' :75 ' 884 '78 4 ' (2''!
BZ C 27 ; 22' 45?78 48 ' 5" <(22= ' 0 # 7 ' % ! . 49 '; = 7 1 ' 2: (5' 4 ' 67=8 45 4 1 ' ; ' :'; (1 ' (@@422("
4?(! ! ' ; ! !) . 4 5(' '] (5(25'8 '8 ' =5'35(2?" R2'58 ' (: (55= , (? M (55'8 D ' 7 ' '5 3 =5! '; !
87; ; 488' 674 4" =8 78 % ! (55'8 84@ 4 1 ' 67" <''' ' @(' 4 ' =5(2?" <'2'78 7 ' (? (55! Z , !
7; ; 488'=548 . 4 7 1 ' '8 = 7 1 ' 493' :7' 1 78 87@ (' '5 5= ((? (557 1 ' -Z ' 78674 (? (2= ; (55 1 ' <'2'7 1 ' 5< 4 ' '
49 0' :4 5' ; = 455'= ' 84 (= ( ] ('(5= 7; '= ' @(! M !) (2= ; (5= '8 = 87; ; 488'884 (' ' 0 ' 1 ' '
(55'8 D ' 4 ' :7'4 # ' 42 # ' < (4 1 ' 4G78 ' (55'8 84@ 4 1 !

" ' ! A _

! !

9 2 ' * , ' 7 '#U'54 bU'2:4 , f ' 24bU _' @';#'" , f ' 4:;2#U5 ' _' ? =;37b" 1 4' 37 <; ' ' ' D_bU'2&@=?'bU:'bU;bU' ' 1 4' "7':354' ' ' 7'@6''!' L;b'@ 'b'5 _' =@1P7' !' K ' ' !' ; # ' 'U'24P71' ' D_bU451bU'. :![

9 2 ' ' ' A' !' # ' 4L;=2;!'B<C' ; # ' bU424P71' ' = 8' :2bU';: 1';' 1 4' <% bU'2;=:: ' w'E f# !' 7#5#' 1 4' bU'24P71' 1 4' 42'!' B C' U ' # ' .D)<J D)#J ' A,! ' ; # !' <D)# # C0 1 ' 1 4' D%2bU'2@=?'bU@;BU'-!' ' ' P75;3bU&' 'HD)' ' !

9 2 ' ' ' * ' 1 4' ;42:@';3' !' + !@ ; # !' _I4b ;35IbU'-:' 1 4' :2 &' '?'1;' # ' % ' ' @

' ' # $% & ' '

bU1:';:)

:bU :'1:bU @5 3bU22' U'=@L2}';' '5' bU' 3'

bU1:'P:' 1 4' :2 U';: 1;!' B C

P7:P71' D2'' 45bU'2' bb'@@@4' E # !' !' :@bU5' <1P' 1 4' DZ'bU' =;2 ;@bU' :' D2'' 5bU5' u4'U4' 71:#1' 1!' ,!' D_b'42@7:bU' ' 8 ' " # !

J ' b';3' 75-bU'24' 1 4' W%RbU424;7'24' 2'' 454='2' :=-7'54' 2='' @4bU;3' " ' !' P75U#2' !&&&&&2=L;bU 3' * 2'@ 1bU;3bU' _

9 2 ' # F-' F 8 #' 2 #' #-' KKL #h+c T' ,_ Y' 8 ' +# #' #-' 8 JH 0' +8 -#-' 8 ' JHF-8' 1#2##' HF#- #' +-' 821 H + G#' 1#2##' ! F 8#' 8G#-' < 0' F ' F+ +##' ! + F-' 8 ' +# EF-' <FE' $#J -' E81F J #' -F @ FGF2 #' 8280' EF #' 1#2##' 8 G##

9 2 ' #X' 1 J ' JJ#E#' G ' + 8 ' K_ FGF2 # ' 82EF# #' 8< #-' 8 #' +-' 2 H J#' 1#2##' 82J W' 8 ' UFGF 2 # ' " F #' 1#2##' 828EF #' 1#2##' 8 22 JH#' ; 8 # ' G8 -' " + H#' E8' # 8+ # ' FGF 2 # ' + #' 2 #' 1#2##' 821 + G#' ,_AY' +-' &F 8 E#' 8< #-' 8 #

9 2 ' +-' - ##' 1#2##' # H#21+# H#' 8G#-' K_ ! X F ' ,_ Y' FGF2 # ' ! 8JH F- G#' 1#2##' 2 H J#' 8G#-' 8 +#88' ,#' 8 ' # 8+ # 8' #F-Y' # # # ' H#8 #-@

/+ 8 ' ,28G# F-Y' 8 ' -JF #J ' +E# ' 1F#' E F-' # ' SF ' H # ' ! 8JH0' F- JH@

-#G #-' 8+ ' UF- # # ' J + ' + <# @' & F-' F #' +8G8 ' 1#2#F-' 2 H J#

&F EF# F-' 8X' J2#8 82 8' + +#-8' UFGF0' 2 I# ' #2#F @ + F-' 2 F-' 1#2#F-' 82 JH0' + G#' 8X' &8-# +F ' # 8' + FF-' 8- ' 82+F ' # ' +# # ' I#G ' ,_BY

9 2 ' $+ 82#F ' &F G 2#' 1#2##' 828 F2#' K_A 8G#-' J2#8 82 8' G # +F ' G-80' -8JHF-' I#J +' 1F# ' &F G 2F-' J8J#E# @

B C' 0 A;' ?4' 72 4' ?4875 ' ':!' B<C' K' ' ' \ B' ':'?!
B C' 5' 3 =5!' ;= ' 4 878' '8 " 8';' 24 75 7)
K' ' # ' ' '- O ! ' 1 @ $ ' O'
K' ' 1 1 O ' 7' $ ' ' B

BZ C' 71 1'5478' '8' % K ' <7' ' : : (8' 0 ''458'8 ' ?4' 67=' 87@ (' (55!' , ' 5!' ' 4 ' '5< (' (?' (55!' Z ' 4 ' M,!
BZ,C' 4 4' :';' [[G79 (' (2'67=8 Q' (2'=65'5' 4@4 ' '=' 48 !' %'?4' 7@ (' (55!' Z' 4 ' '5< (' Z !
,_ Y' 8V'"=:' 71' 4<4 ' 3 =5!' (9=5 ' (?' (55!' K_ ' ' 41674' 4?(' ! ' ;!' -!' %'?4' '5< (' 5= !' (?' (55!' !'
BZ C' 75?(' ' '8' ; ;248' (1' ?4' :4 ; =88(5 ' 7 ' '5< (' (?' (55!' Z !

, K ' ! 2

! !

H# 8228 ' ' ' F #D) D)# H' J'
m ' 9)# ' 8 +<D)82D) H 8' #Y2D)#Js## J'
' V ' h1# #+ ' '
'_' / ' 2Y8 JHD)# ' 8 !

F- # ' +E JHw ' 8 ' E -' 82#J# '
+-' F F-J G#' 1#22#' #' 8## 1 80'
2 E#' #-' 1#2#F-' 2 H J#' +8G +8' # J#<# ,_. Y'
X<F2-# ' &+ - #' , 8G#-' $#J +F Y' E8'
+8G ' ,_KY' 8 ' F- # ' 8 8H +#w'
+# F

K_ ' 9 ' # & ; ### ' ; '
E ! ' / ' !' !' h D)# # Y#J
'h H F)#22' 2Y1 #JJ' m 'hD)#2U #D)JD)' " G'
'?m<D)#2 8' q#2 ' 8D)' ' &, ! !' D)820'
I F D)' " ' _ ' !' ' @'
/ ' I_ F#. 8' 2F# 8

9 2 ' F- # # F-' # +' 1#2#F-' F- 0'
#' >' #-' +8G ',__Y' wE8-' & 0'
G + #' 1#22#' 2E#' JF2 #' 8G#-' & 20'
+# E' D@ I#G # ' / 2 8 ' #-' #8 -#-'
' # 8+ # ' 82J '1F E I# ' JJ280'
-# ' E8' 8+J+ -- < ' F- # ' <#'
I#F

K_B' 9 2 ' .4)?)' D)#2 J8 Ye JD)' 8' hF 0'
J E D)' #' ' 8J #1 J 8' 8
E#J ') 8<-F#4' 8' 2 EF) 'm2#' 2

9 2 ' wE8-' G 2#' J <# #-' 2 G#' 1#22# '
&F <8H E#' 8G#-' 2#E#Z ' <8+' 8J0 +0'
JH8F '1#2#F ' 2 H J#' / 8+GF-#F-' 1#2#F-'
H #' 8X' 2#E#w' ,J+8 8-' 8- Y

!' ' ' ' ' ' ' '
!' ' ' ' " # ' '
"! !' !' K ' ,' ' ' # '
" ' !

J' ' F 8-' 8 #-' 8 ' +8 F2 ' E'
-<8J#8 ' Jw28- #-' +JF-' SF + ' I#G#2# '
J #-'18+# 'SF# ' 8' $ -JH ' ' +#8 8'
<+ J8E8F-' # ' - GF#F8F ' J 2 +8 'I8+- '
8- ' ,_CY

K_.' 9 2 ' D)J ' R< U#' 8 0<D)82' 8' 2 #J J

9 2 ' $+w2#F ' J 8 ' 8 1 82 E#F

BZ C' .4 5(4' R5;(4@' ' , ' .49' O':4 5'(4' = '78 '(55=' Z,' (4 (4' ;=1 !' 7 ' '5' !2 ' .4 !' O':!' @' 999!
BZ C' =8 78' % ' .49' '; = 71 ' 23(5'(4' '78' =5(2?' ' 4 5(' ' (:' (55=' M' (55'8' % ' 3 =5!' '; !'
%'?4' '5< (' (55!' Z '4 ' 8=@ (' (?' (55!' !
455'58' O':4 5';4' 4 878 ' 4941@2(' (5 '6771 ' '5' I 7 4 (5" R8;422(54'8' '584 71 ' '5' =?';4' !'?'; ='
(22'5'= 4584 ' (' 5=5552''8' 2' 752'5= ' 45G58' @(88'1' 145''5' ' 884 '58 ' 4 '] ('(578' 7;'78 ' @(!' Z '4 ' M '
((2= 75" 493':4 ' .4 71' '; = 71 ' 87@ (' 141= (71' @(!' MM' 5!' -, ' 4 ' '5' 67= ' @=8 ' (2= ;(571 ' <'2'71'
U5< 4 ' '67" 4 5(' ' (55'8' '4 '] = ''(? ' 8' 4' O # ' <'2'51' =542 ' 67" 485(' ' (55!' D ' 8467' 7 ' C =8'w"<'2'78'
4G''8?'& (' =542 ' 4 ' < (4 '] (5(3" (55'8' Z N' :7'4' 87;;488' ' 7?458' <'2'78' '2' ' (55'8' , !
BZZC' 78 '5'(578' ' ' 8' 4' '5= ' (" =58 (5 '5=' 87;;488' ' (55'8' 9 ' (:' (55=' -' (?' M- ' 67=' 4" 87;;488' '
M ' O=;' '1@4 (5 4' (3(=' (' ((;45'8' 49@7 5((' 48 ' (55=' M ' 7 ' '5' 34=@ ''2= ' 4? (5= ' (72=
' '(;=5= ' !M' =5((!' %'?4' 2* '?4' %4 '<'4 ' 248' (48 ' ! ' @(!' Z) !
BZ C' 4' 8'1'2':78' =?' ''8' '?4' '5< (' (55!' - ' 49' 3 =5!' (9=5) K' < $ ' ' " # ' % '1 B'
8; ':' ' (?' 3''5;' (5571' ('(558' ! ;= 78' 49' 67':78') ' (5; = 71' O':4 5'1' = ?'541' ;=58 ' 7" @=884 ' 8; ':' '
884 '78 ' @(!' -& !' =?41' 1 = ' @27 '1 " O':4 545848 ' 5= (5 4' 4 z '= ' K'] (22'(8' 4967'8' (' 8(5; ' (=5'('
K' ?4;= (75 !' . # ' ." ' 6 ' 65" 49' O':4 5'(' @ =<4; ' ' =45=:'(' ;=5?'?4 ''5 !Q' . (!' 41@ '
@(!' !) 5' =?';4' ('(5" @ (4;2('88'1=' ;7G78' 87@ (' 145 '=541' <4;'178' (?' (55!' , ' ('(5" 4 :(' (?' (55!'
Z ' 8';' 8; '@ (' 24 '1 7) K' O':4 5'(' 5872(' ;= !' ! ;'8' 4 ' ' (:'2':78' @4 @27 '1 '8' 85:2'1' 4 ' @'45(' 3(:4 7 !Q) '
O(84' 4" :(' 4; 4' 4?' (' '?4=' '5' '1= ?!' @!' Z - ' 7:" (7; = ' 87:G75 ') K' (' 45'1' 49' (5;=<5 458" =?';4'
K' 2=;71' 48 ' 7' ' ' '5' 87'8' (?' %' (1' #'2'(5" 5= '8 ' ';=2(78' 4 ('78 ' 6771' '6' ('(5" 3 =5';= ' 67=?' 26 45 '2

" ' ! A L

1 4' *R24P3bU' L'bU' '4' =;;' 3' !3!' %'45'54' '5' y '2' 4bU2;<'7' D'' *@'5 !' 'bU F@'4bU 3 ;2'!' 1 4' 5' 7 ';bU 3bU' " ' !' L'5!G*'U' *@'4 3bU;3' # ' !' ' ' ' 1 4' bU'542 V ' ' ' K !

92' 2F ' b #' 2# #) 'Y' | !' & 'U ' ,Z'w'?I)# D)8' ' m 8 D) ' ,)Y' !' I0Jm D) H ? 2#2# H 1<#' <8 ' q<# 0<#)' ?<#8 D)JH !') ; !' ?m<DD#2 8 ' ,! ' " ' ' '5 ' ' !E # D)2 8' 1; D)828 F # _' ' JD) D)#2 _' <E #28' E # ' !

1#2#F ' 2 H J#' 1#2##' EH#' !2 8 -#-' <FE' ' +8G# #-' #w' # ' &#I#-# 8' u2 +w' <8+' /# JH F ' #1#JF @ /#2# -' & J2# E#' I#J +' 8+ @ /# JH ' F #1#JF-' +8G +8' # J#<# ' +-' I8 ' 1#2# +F ' & #82#- @ +-' 1#2##' $8 Ew ',_LY

92' 2 F-' <-' -F2w' ; JJw' 20' K_K' w' ,C Y' 8' /# -' 1#2' +8 #' ## ' &8- +FJ #' +J#-' 2#J #w' 1F E2 F-' <8+' /# JH F ' #1#JF '1#2#F ' & 8H E# @ / 2 8F-' E8' # 8 #' +8I8+ # F+' , # 0' Y' ,C Y' G -' 1#2# -' 828EF #' 8' 1#2##' !J E 2#' 8' + HF#28F-'UFGF2 #' -F

B C K' (' 14?('5\I' 3 =5!' ;=!

K' E' = 5!' 55(22:78' 48' '5 49 71' 24 (7' O':41'(' 5872(' (5; = 71' (5; '8' 4' 2 (:'2':78' @; @27 '1'8' K' 87:2'1' 4' @'45(' 3(:4 7 !Q

4' 3=;' ('(5" 49 7' 4' ?4' (2'=' (55" '5:" ! =271:(551' 141= (884''58' '567' '[[' s 7=7 =654' '5' 2=;=' K' (8'2'78' =3(5548' O(=2?58' 67" 49' (5;=<7 458" '2'=' !' ('(57'5' @ '178' '5' 27;4' 5' 4?'?' ' 4' # ' K' 4' 1 # ' =;48' @45' ''8' @ 1 ; 5''8'T' 67(8' ;=5 (4 4' 8; '@ (8' '5 4' 84' <(;'24' @4 17 (' ' 42' (5;=<5 458'8T' K' 4?' '=' =@= (@3'T'] ' (2?R' <'?41' <4;4 ' ' 67(4' ;== 71' @ =' # '5=:'8' 493':4' 14 ' (' '5' '8 !' ' ';!' !Q

('*'(1'8' ?4' =271:(5=' '567'2' '5' =b2';4' @ 1?'; =' = =5!' K' 5!' 5;! '!' ;8' @(4' =271:(578' 49' O':4 5'(' K' 5872(' ;= !;''1' ;=!] (22=' (2''86''4' @ =:('8' '8;'@72'8' 45' ' '5' 5 75?'(1' ':'674' @4 5'' 45 4' 34=?= ';=' K' .4 4' =5(8<4''71' 67=?' ''9= '71' ?';'27' (4?'<';(' ' 49'5?4' (' 754;3' ?(' <7 (58!) 5;9''!' 2(1(55'(1' A' '5 4?' 7 ' 7:" 41'] (2'71' 42'67' ' @84' 4 =' '5' (2'(5" (58'458' =5(8 4''51' 67=?' = '71' ?';' '' ' K' (4?'<';(' ' 7:" @(4' 172 = 71' =5(;3= 71' 49'' ' !Q' O84;' 4 =' '@84' 49' =?';4' = =5'(5=' ?48; '@8'!' =5<4' = m4 " (L"=2!' 4?' ''1' (' (5'8'=' 5 '6!' 4; !' !' !' @!' Z Z' (?' !' ?!' 75''!

BZMC' 8V(2?78' (' 45?(' =;;'878' 48' (55=' ,' 5' '5' 2' =5' (9!' @!' !' 8V(2?=' 8 ;;488' ' 4=' (55=' <'2'58' 8V'78G' 67" 4 5(' '(?' (55!' 78674' Z) 45?(' @4 ' ' '(55=' --'4' 4(?(' 78' 4G58' 4" 87;=488' ' 4 ;'= 71' 49' 3 =5!' (9!' @!' !' 4(?<<" 87;;488" ' (55=' - ' < (4' 4G78' E 72<34 78' ?4' 67=' 3'4!

B C' ':4' !' (22'1= 458'8' (:' 884 '=' 2' 75 '578' ?'; 78' ?4' 67=' '?4' 87@ (' (55!' Z ' '567' ' =5(8 4 '51' + - 'B3=?'4' + a' (' =21(5=' @ =' '8;'@52'8' 87'8' (9=5;'8' <75?(71' @ '7865(1' 5852(1' %(;41' (2:(4' 5('&' (8*84 ' 4' = 1(;" 4' ?(15(5" 1 =' ' ' # '<7'884' 3(:' (;7251!' '1= ?!' @!' Z '] ('(5!' 7;!' @!' !' 4?!' !' ' ;!' '4', '4' ! ' ;' , '4' '4' 1' 3' '5' 5= !' ' (?' 2=;71' '8 71!' =21(578' @=8' ;=5&' <2'; 71' ;71' E '2< '?=' '5' ! L5=?=' 3(458' ' (55=' ' 42'; =' '5?'8<(54584' @'8;=@(=' ;7" @4 ' '455'71' @ (4<74 (' '5' (2 '(1' 4 4 878' [[72' ' 84;71' B'567' ' 4?(' ! ' ;!' 'C' =1548' 67=8' '5' B!'5?'8<(1458" 5872(' K' ;=5 4 (4 (' ;= =8!' 4?' 4' ?4' 45 4' 5 2= 51' ;' ' 4' 999' 67" 5 '674' =5(;3';" ;=5 4 8('=5'8' 8 7?''8' U['1:7 " 4 (5) O'8' @ '171' '5' @ @1 ' '5872(' '5' 1(4' =;;'?45 (2' ' ;=11754' ;=58 79' ' =5(8 4 '''1N K' ?4'5?4' ;= '8' ':" ;2'; '8' '5' '2'=' O':4 5'1' 2=;=' 67" - ' # ' + - @ '5=1'5(= ' (2'7?' 5 2'8' @=87' ' K' =45=:'71' 67=?' 78674' 3=?'4' (:' 5 2'8' 454 7 ' '5;=2'8!' @871' 5(1674' 48' 67=?' 575;' -# ' ?4' 1=?';=' K' 4<4; 71' + - @ ' ;=5874 4' =;(7 !II) @'8;=@(7'5' ('=545841' ':" ;=58 ' 74 75' =21(5" '8;'@72' ' 67=?' 1(58' ' 78674' (?' (5571' --M' 67=' 7 45'78' (;' 43=(5' % # ' ('=5458'8' @8!' ?'; 58' <7' !' '1= ?!' @!' M !

B C' =11'5478' 2:=8' % ' ::(8' O''458'8' =:'' ' (55=' M' 4" 85;;488' ' . $ ' ' (3' (55=' '8 =' 78674' (?' (55!' ZM' ::(8' " ' ';4' 884 '''8' 471' % 8 '4' 71'5451' '?4;2(4!

-) " ' !

! !

K__ 9 2 ' + ' / ' " ' A' ' '
' + !' w' * !@ hF JD) KH' 8'
22JD) ' I #' #m# 9) 22' 2' A' ,4Y' 2 ' D) 820'
hF# ' 8') 82#e#E#1## H ' # ' 8J ' ?m<#0'
9)JHJD)' _' 2 # H 8Js#D)' # ' ' ! ' 2 J##D2'
.D) 1F)' ' Q ?$ D)J JD)' " ' !' 5 #'
' F#28#+F) 8' !' ! ' 8'
D)#28D)JHhD) ' 8JJD) ' I F# 8D) #' ? " '
' ' 8 !

9 2 ' " # ' I#- ' 8- ' 2F # - ' # ' !'
!8< 8 ' 8 ' J +#- ' ,CAY' &F 8H EF-'
1#2#F-' 2 #' 08X' +G# 22#-8 ' JJ#-F-' 8- ' '
82EF# ' 1#2# ' 821# H+#G#' $+ 82#F '
8+' $# J F ' 8 ' G8 #8 -8- ' # ' 2 J '
<+ X# ' JF#' " H+ ' # ' SF ' / # JH '
I#J +' 0'8+ 0) G+8--# ' #2 8 -#-' F #'
J8J#E8+F ' EF ' 1#2##' 82J 8 E #' 8J0'
J F-' #F 8 ' SF#8I# ' # ' -F2 ' +#
#

<9 ' 9 2 ' ' ' ' ' . ' . # '
/ ' /u= # ' ./ s W ' ' ' sC/!'
' /u -& ' +/9' W# ' ' '
' +N(N9 [/ ' W#' ' +r9'
C\ 6(I ;2D)82 D)1#' ^1 >(
w' ! -' ' # ' ! !')
8 ' ?!' " ' ' - \ '
$ ' (' #9)# ' #9) W)' I '
D/> < ' ' ' #' [# ' ./ ! &
h< I ' 8' h H 9)#22' D)J ' #'
D)2+, <0(4 !' ?!' " F!' ' h H 22' <8D)J

9 2 ' +-' 2G #' 1#22#' / 2 8 ' / 2 #'
8G#-' # 8 ' / # G # 8F-' 1#2#F-' / G'
/ ' 8X' 1# ' # -@ & +JH#20'
2F-' 1#2#F-' ' ++# 8#' <#- ' " 2# E 2 JH8 -#- '
8F-' <#-J <F- ' 82E<G +' <-'
/ 8+ 8 -#-' SF#8I8+F ' 8+18J # ' G8 8
+#-' + ' # ' 8 ' 822F ' # 8+' / 8+JH +F '
2 F ' 8 ' +# 8- ' SF#' I#J +8-' 8+ '
F 0! H ' 8X' -- +# 8' + FF-' 8- '
JJ#-F-' ' / 82 0!8 JH - 2' # F-'
&+ - #' 1#2##' & 2E# ' ,C Y' $+ 82#F ' # '
2 H+ - ' # ' SF ' I#J F-' 8- ' & 2EF-'
JF2 F- ' ,CBY

K_L' 9 2 ' e! ' 7 , ' ,!' 28D)' , I\' 8 h0'
' !' D)JH D) #22J8 '
' ?)<# #h<#8J2J2#J#)' ! ' 8#JJ' ' #<JH8 '
) ' ?) 8JJD)#

9 2 ' : F#8-' / 2 8 ' #-' ##8 -#-' ,C . Y'
8 1 82 E#F-' - <#8 -' < F- ' ,CKY' $+ 8
2#F ' 2 # 8 -8' G8- F ' ' / # 8 JH '
, 8G8' # 8 # 8Y' J8 + ' 8JJF ' 1#2#F '
+JH##' # F-' 8J #

BJC' K' '5' @. #- B' 3 =5!' ;= !
B C' 4875 ' 3A ;' ?4' '5 '54' '5' 3 =5!' ;= !' B0C' K' # ' ' # 7 B' :!
B C' 3 =5!' ;= ' 3' ;' 3 (:4) K' = 8' # ' ' B' 4 ' = 1 ' ' ' ; A 4 (' 87 :' 3=;' (55=!
B 2C' =' : : ('8' 4(' 3 =5!' ;= ' 3 (:4 ' K' ! $$ B' ' = 'H 7(2?7 1' ' :'8'5 1' ' (' 4 (884' H

B ,C' [[!' Z !' 0 =;' (55=' (@@(5' ' 8 422(' =1 4 (' '5' 4584' 7 78 = ' 4 ' 4<<528' ' @4 ' y8' 1 45848' = 1 5" 1 (54 '
K' (5676 1' (?'58' =2('8!Q' 3 =5!' (9!' @!' !
B C' 4' =8 =' '?4' 5= !' (?' (55!' Z, ' 87@ (' @(!' , ' 7 : " ?4' . 4 ' :!' '; '8!
B C' 0 =;' (55=' Z ' = : ' ' ' K' ' % ' . # B' 55(2!' 2 !' 67" '?4 5 ' 4884' K' %454 (:'2'8' 48 : L 4 Q'
(:' ?(5'5(5=' 5 ' 8758' ;='; 758' 5= 1 '5(48 ' ! ' ;!' , !
B -C' %'?4' 87@ (' (55!' Z ' 75?4' ;=58 (' (2:47 1' <7'884' " ' : : (4 1' 0"45841!' (; ; 488' ' 4" '
?(15(578' (55'8' 99 !' 4?!' !- ' ;!' ' 4 ' , , ' ! ' ;!' , -!
B C' 4' 3=;' 45<(42(?'=' '?4' (55(2!' 2 !' @(88' 1 ' 78654' (?' (55!355; ' 4 ' ((2= 7 1' 5=8 5 1' =?'; 7 1' !'
' :2'= 34;84' =V458'8 ' ='!' ' 5?'; 4' =;4' 1 ' 4 ' . 4 !' 0 ' :!' ! ' '5' 5?'; ' : (8!

" ʼ !

9 2ʼ 2 +# 4A2 ʼ 2Y JHD)#ʼ !ʼ ʼ
JHD)2 8 !ʼ f ?q
#F) H2 ʼ 8 ;2D)#28JF#28 m ʼ2 #" ʼ _ʼ)) #h
I#8D)JHD) ʼ ,) Y #ʼ 1 7' ' 'D ʼ 0<8 ʼ < ʼ " 4
HD) ʼ ,4Y D)<ʼ?< < D) @ D)JH #)X ʼ !ʼ ʼ
ʼ; ! ʼ * !ʼ ' ʼ D)828< E#D)<0
J #"H <<ʼ22 <<DI+s#D)ʼ Y<D) ʼ 8 #22
D ' 3ʼ , 5ʼ J(ʼ 'U;3 ʼ 2C7-2 1 #ʼ B<Cʼ !ʼ ʼ
+9)#22 #<- -H I ʼ 8 8 #2]#<<<8

!ʼ # !" ʼ "ʼ u , ! ʼ ? Rʼ " F
: =2 - - b ; 3!
#2! / ʼ #!ʼ ʼ 75 4';3'@5!
! 7 '-bU2 14 "J @7';354;3ʼ Z
8 <D)82D) |H I>ʼ D) #<D)ʼ .) #0 . 8 ʼ ʼ
ʼ ʼ D\HbU42:75 14 D\2bU"24@';:&
G7 2') ;:ʼ 2C2 '@24:4 ! ʼ BNC';! bbU42ʼ
:71ʼ 14 "24@';:@' ! Z
"24;7"24 ' 5 UU5:ʼ
) k= 7U22 ;3bb2 14 7';:bU:3ʼ
1:;'@4! 0bU ʼ "44:57@#" 3 14 K2'@J
1'::BU' ʼ Z =5bU1 ʼ 14 J;ʼ "bU@
W! 7':@4 ?!

9 2ʼ 4)ʼ # m< 82D) H 8ʼ 2 D)ʼ I y ʼ
Y ʼ _ ʼ 28HD)ʼ ʼ ʼ D)822D# H8ʼ ʼ ʼ 8ʼ
8ʼ 8Fv28ʼ ʼ ʼ , Y 2#)< ʼ D) 2#D)#2

!
9 2ʼ 2 F-ʼ -ʼ 8 JH +8 -#-ʼ KC
@ H 2EF-ʼ 1#2# -ʼ G 22 JH#ʼ + FF-ʼ
8- ʼ ,C_Y wE8-ʼ /# #H2 #ʼ 1#22# 820
F2## 8G#-ʼ G8 #w ʼ 8 ʼ 8X<2 + +8-ʼ <+ 0
<+## 8X8+J# -ʼ I F2 8+ I8+ ʼ 8F
$+w2#F ʼ ! X F ʼ F # J8J#E# ʼ 2 0
#F-ʼ 1#2# -ʼ - ## ʼ ,CCY +-ʼ 821 0
+ G# <#-J <# +E-+ H8 -#- @ + 0
F-ʼ 1#2# -ʼ 22# 8Xʼ G8 #w ʼ
$+w2#F ʼ # ʼ FGH ʼ F # J8J#E# ʼ 20
2F-ʼ I -? +ʼ 8Xʼ 2#8 82w +8#
8<+ ʼ G+ I#--# ʼ # ʼ # 8+ # ʼ SFw
I J F+ʼ # { !
9 2ʼ +## F- # ʼ 8GF ʼ # ʼ F # 8 ʼ KC
8 H#+ #ʼ #E 8- ʼ &F G 2F-ʼ 1#2#F-ʼ ! J E 2#
8Xʼ $#J +F ʼ 8 ʼ 8 1 82 E 8Xʼ # 0
JH +F ʼ I 22#-ʼ " 8 # ʼ # ʼ # # # ʼ w- #-ʼ
ʼ 82EF# ʼ 1#2# ʼ 821# H+#G# JJ#-# -F ʼ
$+w2#F ʼ #-ʼ J #-0J GF2 # < - 8 ʼ
8+ʼ 82EF#FF ʼ 1#2#F ʼ 821# H+#G# ʼ 8 ʼ
/2 F ʼ 1#2#F ʼ 828 F2## ʼ J + ʼ # 0
JH 8 -8-ʼ I 22#-ʼ " 8 # ʼ +-ʼ 22#
" + J#2#- ʼ 1#22# & JH E# ʼ # ʼ #+# ʼ +-ʼ
! 8JH F- G# ʼ 8 ʼ G# 1#22# G 2#@ʼ
+ ʼ 1#2# ʼ &F +#w SF#8 I#
9 2ʼ wE8-ʼ # 1 82 E## 1#22# 2G # KCA
8G#-ʼ J#w ʼ 8 ʼ 2JH F-ʼ F1F-ʼ ʼ
8 22 #GH8 ʼ E8ʼ 8 0 F#28 -# F- ʼ J0

B Cʼ ʼ, ʼ B' ' : !ʼ rʼ K ʼ # - - B' ' : !ʼ B Cʼ Kʼ $- G' ' : !
B Cʼ K ʼ 27ʼ '5' '8ʼ 3'4 1 '8ʼ '5ʼ 67=ʼ '5 4 <4; (8ʼ 48 ʼ + "D ʼ ʼ + 3 # - ʼ ʼ ʼ 0 @0 ʼ Z ʼ .
A' . ʼ ʼ + B' ' : !
B Cʼ (72=ʼ (2' 4 ʼ 3 =5!ʼ ; =) Kʼ ʼ K ʼ ʼ ʼ $ ʼ FH =; ; '?' ʼ 47 1 !

B ZCʼ 4ʼ (3(2?=ʼ . ((22(; 3" <'2'=ʼ '?4ʼ 87@ (ʼ (55!ʼ M! à . ((22(; 3=ʼ 87; ; 488' ʼ 0 # ʼ ?35478ʼ <'2'78
=5(22' ʼ (55=ʼ M ʼ 786 '4ʼ (?ʼ (55 ʼ ʼ . 49ʼ ʼ 3 '8 '(558ʼ =55(; 'A ʼ ; '" 87; ; 488' ʼ 9" 1 ʼ (55=ʼ
w=?4 1ʼ !ʼ 7' ʼ '8ʼ ʼ <'2'58 ʼ 4 ʼ ; 7 1 ʼ 4=ʼ ; =5 45?4 : (ʼ (? 54578ʼ =2=5(5" <'2'78 ʼ ?4ʼ 65= !87@ (ʼ (?ʼ (55!ʼ - !ʼ
; ; '878ʼ 48 ʼ 455<(42(?ʼ (55=ʼ !ʼ %'?4ʼ 5= (8ʼ 5=8 (8ʼ (?ʼ %ʼ (!ʼ 55(2ʼ (55!ʼ ,ʼ 4 ʼ !ʼ 79 (ʼ : (5 ;ʼ 5= (5(ʼ
; = ' 4ʼ 5= (1ʼ (?ʼ 55(2 %ʼ (! (55!ʼ - ʼ @(!ʼ , , !ʼ 45<(42(?'(ʼ 9" 87; ; 488' ʼ ʼ 9' ' !
B Cʼ [[55=ʼ ZMʼ q 2<V'778ʼ B < '?" < (4 Cʼ =; ; '878ʼ 48 !Qʼ 3 =5!ʼ (9=5 ʼ @!ʼ

, , " !

! J#-2#8 0<9#1# # 98 8 hF J29)
F#< J8 8 D)82 F# U2 D) @ D)JH
m2D)JHD# _ #I8 F# H8 2# 8 ! 2YU X 8?<
F J8J ,)E#FI0D)E# 8 E828 F# m
<# E# 8 _ 22JD) 8 #JH 22 0000
$? 'F# H 8 8 D)#2F D)8 # @
% =@4bU' : '!&&&& # [\ 2
<F# H8 ,$

J#E# 8F < - SF 8X<FG --8 E #
8UF- 8 ## & JH EF- +# # F-
1#2#F- 82EF ## 8X 1F# J# 8
,CLY $+ 82#F F # 8 # G #
E8 - # 8 <# 8 - J + +# 0
2 8- F # J8J#E8+F H - JHF- 1#2#F-
82EF# # 8X $#J +F 8 2 0
F- 1#2#F- &8JH 22 - # F- !F -# 1#2##
82F Z $+# J#<#- +J G#-8 +J E8-
-F2 - E828 - -F +FE8 8G8 $#J
+F ,L Y

; , # # " K
! , Y
KC 92 ! # " ! K + # + 8 ! K !
? 1 # , E /
" ,) " ?
? , # # A 4 #
) ?
, 2 8 + " ? /
E , ? !

h 8H I_ F#<<J8 I; E82 # I <
E # ! q<8DD< E2 _2# H 8 8 _2<J0
E#28 G . ! D)JH <E# # á !
8 2 #J 8 _ ?<8< F< 8 2 828hF I
8 #<<<8 V D $ m &
! ! * !
) c < 8hHE#-H E <E8 8

& JH EF- +# # F- 1#2#F- 82EF ##
8X +# J#I UFGF2 F- /8+G 2F- E0
8 -#- 1#2#F- + G 2# 8X J# - 1 J0
F- ,LAY $+ 82#F + 8 -8 # SF J8J#E8
+F 2G 1#2#F- 2 H JH# 8 /8+GF-#F-
1#2#F- 828EF # 8X J2#8 82 - + +8#
#F + 2# #- <F8+ +F # 8 -8

B C . 48 48 (8 35G78 (55 ?2 '?' '5 ?7=8 (5! 3 =5! ;= !

B MC =55;2'(?78 '8 9' =55(;'(4 . 49 3 '8 '(578 =:' G59 (% (! (55= !
BM C %'?4 67(4 ?4 '; = 7 1 . 4GN':'8 ?'; (875 87@ ((? (55! -Z ; '5< ((55! M ! O'4 7?478 <7' <'2'58
'2p 67 G'9 (3 =5! '; ! 4 '((: (55= Z (55'8 99' 4 G79 (' 4 5(;371 3=;'(55= ;(?48 ?424 ' !
?41 ''?4=8 <7' 67 < '?7 1 . 4 41 87@4 h ' (55= -!
BM C '8 '5'('= 49@728= 87;;488' 4=5 '78 7 ?'9'1 78 (55= -!) I ?4 4 ! 248 ?(48 ! 2 @!) M!
4? =58 (5 '5= (87;;488' (55= - 67=? '5?';(4 72 3';' 4 5(;378 67 '5 4:78 3 =5=2= '8 49 4 (&
7 1 45 '7 1 (2'6'(5?= ;2(5?';(42 '@84 42 @= (@3'!
BM,C 4 (278 '8 <7' . 49 9' 3 '8 '(578 =57(;'A :55Y22'8 9' ! 78! %'?4 87@ ((? (55! !

K ' ! -

!' !

2#)# ' 9)#<+#FJH ?2' 1 +D D('
#)' ?!' 2

9 2' ' A ' " !0000 '
D) 8' ?22 ' ' ?)28 # # `+F)' D)J' # #<#
< HD)##' 2 JH' ' D)JHD)JH ' E'
<F#2
9 2' U ' # '_' ' ' '
,! D' & !' + ' ',)Y'
" " !'_' ! ' ' ' '
; !' ' '1$B L' 8' ',
1 8I0DD#2 8'?)8< ##I0D)m ' HD)

! ! % !' 9 2' % , ' !' !' !!!'
b? ' '+ ' !(' D)JH 18 +#
. ' / 0' ' !' ! ' '+ ,, ' '
' ' ' `' J<<#J' 8' 11F' '+ .'
'nU ' # ' ' ' ' # '
!' " ' A A ' ' !' ' '
2 ' <F H#' 8' #22' # '?< <J<8 ' 2D)<
D)#JH#JD## ' , @

J +#-' # F-' # H G##' ! 2I +F '
2 F-' E8' + 8 JH#-' + F-' -' 2F0'
w0 J0 -#w' SF#8I#
9 2' + 2c -'< +IF2 +F @ +-' ## KCB
#-' +# 8 -#-' $+w2#F ' --82#w'
/# +8 -#-' JF-' ' JH' # ' - G #0'
8F ' J 2 +8 ' F F-' ,L Y
9 2' ; 8 F-' G F-' 8' 8++w' F- KC.
' # 8+ # ' -F2 0000 ! X 8-' <F
, +8G#wY' I - ' 8' JJ28-# -' <2F+# -'
' 8 -8' F ##' ,LBY' +-' 22#' 1#2##'
"F +##' +-' +8- 22#1#2## /8+GF-##' 8G#-'
Iw
9 2' # 8+#F-' #-' +TG ' $+w2#F '
F # 8 #' 8JH #' A 'E#8' 8 -#-' ##'
E#8?! #' # ' SF ' G1+#' 1#2###-' - ##'
8X' ! X F ' XI ' '+8G #0' -F#' J
-F ' G ' #2# F ' -F +F ' J 8+I '
' +FE8 ' 1#2#E' #2#' 8G8' $#J I#w' 2
#8a' # 8+18J ##-' 8- ',L.Y' 2 +F-' HJ 0'
8 -#-',# 8' ; E#' +# F #Y' ##

B<C' A' (1@71' # - B' 3 =5!' ;= !

BM C' 3 =5!' (9=5'(?'(55!' -''567''K' 0=;'(55=''5' '(55'(';=52' ''8(5 7'54('@27 '(' '(;'' 41'4 ':5 L 71'
K' ;=5 4 8('<54 75''5'8(5 7'541!Q
BM C' 3 =5!' (9=5'(?'375;'(55!' '3(:4'3A;) 0=;'(55=' 1' 4:(' ; <4 358' 494 ;' 71' '5' \ ' 4'
K'75(' '3 7 ('8771' 7;41!' 2''(7 41'1'84 4' 4'' ;;248'(8'?4 (8 (75'4';=1:7884 75 !Q' (?41'3(:4' 4?('
!' ';!', !' =' '3(:45'< $ ' 2= 45 '78'4' ?(15(578'4'3';' ' 4 5(;358' 4; 4' 4 '(1''5'
'?'(!' (5?41'0':4 5'A' (8 ('=541'@4' 4 < '?R' 7;41' 4 ; 3(1 ' 4<4 ' 884 !'(?'(55!' A A' !' '67='('
34=?= = (5 7('4584' 1 # '8L5=?58'3(:'('48 'G79 ('<27 '51'! ';7'' # # ' '; = 71' @8!''5 4 S
<7' !' '67'?41' 55=' Z '?4<75; =' 8V'=' B 4?!' ! ' ;!-!C' 87;;488''<'2'78' 4 < '?78' 67'' 1 =9'@=8' ('8'
=:' 71' '; =8'?434'45 48'?455='85:4 ' ''5?4674'(55=' ' '455'='@=8'@7'871'('84?4' := (;4584'E'2< '?71'
34=?= (8' 71V'571' = ?'5(''(?' # " ' # ') ' ' % # '! - # ' # ' % # ' $a '
4?!' ! ';!' ,!' ' < '?='('< (5424'87=' # ' '; = 71' .4 4'=;;'8='7''5' '5''';=5 '57(= 4'4''5' 3 =5!'
(9=5'(55=' '67='87;;488''4'' < (4'4G78* 2?< '378' '; '' 4 (8'87(8'(:' 5 2'8' 4;7@4 (4 55 '4' 71&'
V'578';7 ('87'8'67''y (5''5' =5(8 4 '=' !$ # -'(:'4'8' 4;488' !' 4?!' ! ';!', !
3 =5!' (9=5'?4' 71V'5='567''(?'(55!' ' K' 0=;'(55=';=584; (78'48' 71 %'1'8'(?* '; =8'''45'1'374'
K'4=' % # '@('54:(5 !Q' @!' -!' 7:8; '@8'884'<4 7 '7' 48 '8' 3(4' =5('=5'8' (' .4 4' 4 < '?=';=5;488(4'
! 7 3:4 ='(55=' -' 3(('49 (''5' = =5'(5(!' 5' 457'5(''565' 45'(2''!
BM-U' 0A;' 3(:4' 3 =5!' (9=5'(?'(55!' -) K' 0=;'(55=' =;4m78'48' ; <4 358' .49'B 8V4=''<'2'78C'G79 ('r
K' 1(4':= 4(24'4' 1(578'494 ;' 78';71'4='9'''!'#(2!' 75''!' 7''9 '(55'8' .49'4' 2?< '378'4G78'< (4 '@=8'
J' ' 71';(@488'' .4 571!Q
':4 '' 4 571'67=?'('54 ' (58@=8' '='48' 4'2=;='@ =@ '=' (1(57458'8''5;7 '(!' 4=5 '=' 45'1' 1@4 (= '

A B " ' !

2#+9)2Z m#8D)JJ # J' D)JH' F#'H# ' '
J# #' 9' >D ' m2 ' 2Y1 8D)+) ' ' D,J'
'1# JHD)' D)U ' ; # ' m2 J8J JD)# '_'
) # 'E ')# ' D)#8' ' ' 2YD) 0'
D)# # 1JD*JH 181 28 # K' #22#KD)<D)')W<8
<d '_2 ' 2FDD #DD #D)J#U #' #G' ,4Y

KC_ 92' ; # ' ?<8<E D)# ' J' 0'
E#28' e! ' 18 JF F)#-H D)' JJ' _2 '
U ' KD)' 2 J D)') ' '
!' <JD)# 8' #<8' ' ' <8 #0 <<'
' !'?m<# JD) ' #' I_2F KF' 8' F2JD) '
N)_$W D \ " ' ' ' , G'
'& !

< 92' e! ' 8#- 8' <<' 2#<K D)JH9'
* ' D) ' 8' .D)<J DD# #' 0) 8J +D)'
J28<#JD)JF# ' ' J ' 2 28D)JHD)'
0<#JH <8' 8' 8<)# ' JD)#2 0<<
D)2D)JH 8' F)# # ' MR J8J' KF 0'
KD) 8< _2<KD)8#D) _ D)' _ *<J<#KH8'

' & 2EF-' JF2 F-' 1#2# -' JH E[0'
/2 I# J8J#E# ' JJ#- -' ' ' 8G8'
+# # ' #' <+882# ' !+ 0J + 8 -8 @'
FGF2 #' 8JH G# 8' & +G + # 2#2##
/# G# T#' + ##E8' -J JH'$+ 80'
28J +#-# 9#2E +8 -#-' / +J+ #F-' -'
2F 80 J0 #-' SF#8?I#
92' FGF2 #' /8+ E G# 1#2## G 2#'
:F#8-' & JF G# F # +#-' #-' "2# 0'
E 2 JH8 -#-' # F-' --8 # 1#-'
+J G# 8' G -' +-' --8 # <#'
- 8+## /# #' # 8' - 8+## F 0'
F# 1#2## F2J #' E F-' < #I -'
+8EFX#' E' # 8 # ' X' ,LKY
92' :F#8-' !8G#8 # < # +E J #,L_Y'
JJ#-#' # 1#2## " + #' /# 80'
JH ', 8X' # 8+ # 8Y J28+#J F+' -F-J8<#'
$+ 82#F ' 28 JH8 -8' G8- [' ' # 22'
1#2#' 8+ G#0- 2##' J +' G 2 J F '
1#2#F ' G#' F # J8J#E8+F ' &F E # 0'
8+' 8X' +E0J# J 8' 8' +J+#E8F-

BrC' s7A' 8(:' 75=' (55=' -' 3(:4527 ' '5' =?! =?2!' ?' '?'1 5' '5' 3'=5! ;=' '5' ?7=8' (55=8' -'4' '
'(' 7' (5578' '5;'@'(' (' =;':78' K' '$# B' 4 ' ?48'5(' '5' =;4') " ' 2'5?4' 8467' 7' (5571' '
=?';'8' 5=8 " =?24'(5'' 4884' (5571' Z : =5';" '8 '78!

'45 '8' 87;;488' ' (55=' M ' ':4 '78' 8@(8'78' ?4' 67=' 3';' 67" 1@4 ('' (57'8' % ' 78674' (?' Z -' 67='
78 '5'(558' ' 48 ' 7 78' 48 ' 67" 1@4 (''84;(5?=' (55'8' 849! I ' ?4' 4 '<'4' 48' ?(y8' ! ! @! M), !)'
4?(''567'' ':4 '71' 4 5(884' (57! '9! 4' 849' (4 (! @(! ,!
BM C' 41@4' ;(@ ' =8' 6778' 4 ;3 (' ; < '?" 79''5=@'5(='5;7 87' 4' (:8674' (22(' @ (4 '(' '5G7 '(' 4" <(; ('
B7 '! 4?(' 48 (7 C' (:8 72'' 49' '?'(! %'?4' 87@ (' (55! -!
?(1''(5" 141'5'' 4=2< '?78' ::(8' '5' @'8 =2(' (?' (' (571' .4 41' (55=' Z ' 8; '@ (' 4' (' 4?('
84 ((' !-' ;!, '@(' , -! K' ?(15(5' ::(8' 4' (;4 ?=8' =271:'458'71' 4 4 '78' 67" ;71' 4 (78' 87 4'
K' 4('8' B'! 4! O':4 5458'71 C' (?' 2?< '?71' 4 41' 1'8878' 5=8 71'67=674' =5(8 4 '71' '?4 4' =27'884 Q' t ;!
0=;' (55=' Z' #'2'(578' @ '178' E' :7 458'8' @8! <(; 78' 48 ! %' (' #'2'(5" '5' O! (5'8'" (5 '6! 4; ! ! '
@(! M'4' ('(''''8' ;= 78' (?' (75! Z' '5' 4?' '8' 4941@2(':''8' 4?' '5' @ 848 (5 '8K! ! = =7=! '3'8' 4 :'8Q'
K ! #'2'(578' ;= 78' ?4' O':4 5'(' 5872(' 5(78' E' :7 458'8' @8' 9'(78' 3(:4 7 Q) =5845 ''4(?41' '('
(5 '67(' @! ,M! K' ;= '(' 67(4' 4' O':4 5'(' ?';' 7 ! 5872(' 48' 5'('8' ;4(5'' <;4;55?(' 67'?41' 24:'8' 84?'
K' 8(5; 288'1'8' ;2('= '%' '8' 49' 67':78' =271:(5=' (5?4' (2'('] (22=' ?' (7' 241(55'(' #'2'(5=' 47 =55';('
K' 5=:'2' (7' (5;'(!Q) 41' = m4 78' (2:7278' !] (22458'8' 8(4;! 9' '5' (L =2! (?' '' ?! 72! *[(88'=
! #'2'(5" @ '1" E' :7 458'8' ' ' ('8' @'' 4' ?7= 71' '8;'@52= 71' 4G78' =2=5(" 8;'2! 48:L 4 H' 4'
[[= 5(5" '(;=5''67" (:' O':4 5'(' ;= = 71' 5872(' & 45'45 48 Q' t ;!
BMZC' 4' (2'=' 4 '45=' '?4' '5< (' (?' (55! M,!

" ʼ ! A .

! !

Y # #8 !ʼ F)#28ʼ . D)2pJH 8ʼ E0
2 # AzFʼ " !
9 2 ʼ ?<#)Js#JD)ʼ "! !ʼ ʼ # !ʼ
` ʼ & ʼ 2D)2# J H , A !ʼ , Yʼ ; # Gʼ
A ʼ 8ʼ ? 2#1# _H # Hʼ ,llYʼ
m ʼ # H# ʼ 2 ʼ ʼ ?#28#ʼ ʼ # h2FJHD) Hʼ !ʼ
qm<81 JF2ʼ ʼ ʼ D)Ec 1 # Hʼ H ʼ h 2# ʼ
U I#JJʼ # J ?)8JID) HD)# 2#ʼ 8ʼ 8
; 2D)#28hFU##ʼ 8ʼ +F)#2ʼ <E #h 9) ʼ ,) Yʼ
* , ʼ ʼ ʼ + ʼ ʼ
ʼ " ʼ ʼ , !

9 ʼ DD2 8ʼ D)#28hF ʼ 8ʼ #28h1#Eʼ
ʼ !ʼ U_ F HD) ʼ ,4Yʼ _ʼ q 2#22ʼ 8ʼ hF 0ʼ
#28ʼ _ʼ 2# 8ʼ 8ʼ JD) #2E # ʼ ! @ʼ
& ʼ ʼ ʼ + ʼ ʼ , ʼ ʼ % k
, ʼ , Yʼ _ʼ ʼ < ʼ _ʼ 8JHJʼ 28J8ʼ _ʼ
8 2D)#+) # ʼ D) ʼ [!ʼ]$`(ʼ ʼ m ʼ
ʼ hD) JJʼ 2FD) ʼ Hʼ < #< ʼ ?!@) Y<D) ʼ
8ʼ D)#2 m ʼ ʼ 2ʼ ; ʼ
ʼ ; ! ʼ / ʼ ʼ 0@ʼ
ʼ A2 ʼ #228h <D)ʼ " !ʼ 82#

ʼ --# 8ʼ 8Xʼ 22# 8 ʼ G 2 JHF-
1#2#F-ʼ G#ʼ 1FG#
9 2 ʼ / # JH F-ʼ +8 I 8+ # F+ʼ Eʼ +8G F ʼ KCL
H 8-ʼ 0 <-ʼ # G 2 + H8 -#-ʼ # @ʼ
GF2 # ʼ &# + # ##ʼ 1#2ʼ #+ 8 H G# ʼ #Eʼ 8- ʼ
8G#-ʼ #E#-8 ʼ Fʼ 8EH#ʼ 1#22#ʼ &2F H G# ʼ
8G#-ʼ / 8+J 2# 8 ʼ +-ʼ H - G#ʼ 8< #-ʼ
& 2E#ʼ JF2 # ʼ 1#2 ʼ / 8+ E G# ʼ 1#2 ʼ F 0ʼ
H 2## ʼ 1#2 ʼ 82EF# # ʼ 1#2 ʼ G 22#ʼ " + 0ʼ
E 8 -#-ʼ -JF+ ʼ 8- ʼ < +- ʼ ! 2#-ʼ ,LCYʼ
E F-ʼ +8EFX# ʼ J < # I -ʼ # ʼ # 8+0ʼ
ʼ ,LLY
9 2 ʼ G 2F-ʼ 1#1#F-ʼ 828EF # ʼ 1#2## KL
8EH#ʼ 8 # ʼ 8Xʼ # 8 ʼ 8 ʼ 2#2EF-ʼ
1#2#F-ʼ &F G 2# ʼ 8 ʼ #2 8F-ʼ 1#2#F-ʼ ! J E 2# ʼ
UFGF2 #ʼ -F @ ʼ H Jʼ ʼ \E ʼ -J+#<-# ʼ
2# # ʼ E8ʼ 8 < +# F- ʼ 8 ʼ ʼ , Yʼ 8 ʼ
2 ʼ 1#2# ʼ #ʼ + F ʼ 8- @ 6& 0ʼ
8 JF-ʼ 2F #+ +E8 -#-ʼ SF#8I# 0)@ + F F-ʼ
1#2#F-ʼ 22#ʼ 8Xʼ G8 # ʼ +# F+ @ʼ
F- # # F-ʼ # +ʼ 1#2#F-ʼ - # #ʼ +8G
#ʼ #-ʼ X ʼ $ (ʼ " F EF-ʼ -ʼ 9 #2E 0

B Cʼ Kʼ ʼ @8ʼ O ʼ = : ' !Qʼ 3 =5!ʼ ; = '!ʼ B0 Cʼ K ʼ ! # Bʼ ' : !
B <Cʼ =8 ʼ = ; 4 (ʼ ʼ # ʼ 3 =5!ʼ ; = !ʼ 3 (: 4) Kʼ = 8ʼ . # ʼ ʼ ʼ = 8ʼ + ʼ t ; !ʼ 7 ʼ 87@ (ʼ
3 =5!ʼ ; = !
BrCʼ [[(:ʼ 2'5=ʼ ; =2(8 ' ; =ʼ '5 4 <44 78ʼ 48 ʼ Zʼ ʼ ʼ # ʼ Cʼ ! < ʼ ʼ ʼ - ʼ ʼ # ʼ G7 72("ʼ
Kʼ 875 !Qʼ ' : !
B<Cʼ Kʼ ?4ʼ 5(7 (ʼ 4 7 1ʼ 4 ʼ 4 1 @= ' : 78 ʼ Zʼ % - ʼ Zʼ 1 - 6 ʼ = 8ʼ '5 '55"ʼ 2=5 ' ʼ Zʼ . # ʼ + ʼ ʼ ʼ Zʼ
Kʼ $ ʼ '<' (ʼ (5=55 Qʼ t ; !ʼ ' : !

BM Cʼ %'?4ʼ 5= (1ʼ 5=8 (1ʼ (?ʼ 55(2!ʼ 2 !ʼ (55!ʼ ʼ 84 (4ʼ ; = 1 !ʼ Mʼ 75?4ʼ ; =58 (ʼ ; 2'@8''5ʼ 3(5 ;ʼ 4 4 (ʼ '5 ; R?'884ʼ
'5ʼ (557 1ʼ (4 44ʼ ; = 1 !ʼ Mʼ (;ʼ @ =27?4ʼ 3 =5=2= '(1ʼ 5=8 (1 ʼ '5ʼ 1 ('54ʼ 57 1 4 '8ʼ (: ' ; '8ʼ (@@=8' (1 ʼ ; 5 1ʼ
' 4 5(; 3" 1 45 4&@'(54ʼ ; =5845 ' 4 ʼ 4 8" (ʼ ; = 7@ '8ʼ <4 '(7 1ʼ 57 1 4 '8 ʼ # (245?'8ʼ (5!ʼ (:ʼ 1 (574584ʼ ' 1 @4 ' =ʼ
(@@=8' '8 ʼ 7 : '674ʼ <4 4ʼ ?'8845 '(!
BMMCʼ %'?4ʼ 87@ (ʼ (557 1ʼ -!ʼ *
B Cʼ s7'?ʼ 8' : " 42'5" 2'(4 ;ʼ 4?(4ʼ (?8 ; '@ (ʼ 546''4=ʼ '5?((4) ((2= 7 1ʼ @4 7 1ʼ 4?(4ʼ (ʼ 422(1 '5=ʼ 4?' 7 1ʼ
24 " '5ʼ 2' : =ʼ ?4ʼ ; '@ = ' : 58ʼ ; ; 2!ʼ ʼ =2=5' ^ʼ ʼ '5ʼ 67=ʼ 5'3'2ʼ '5 45" 67=?ʼ 49@2' ; (ʼ = ; 48ʼ O ' : 4 5' ; (8ʼ Kʼ @= 5ʼ Zʼ
[[ʼ Q) 4 " @(' 4 ʼ 5?' ; 527 1ʼ @4 7 1ʼ 4?^ʼ (:ʼ '@8=ʼ 4?' 7 1 !ʼ 4?ʼ (2'67(ʼ =@4 (ʼ 8 ; '@8' ʼ @=8 ʼ 8 ; '@ 7 1ʼ
5?' ; 727 1 ʼ 67= 7 1ʼ 5= 1 '5(ʼ 4 ʼ ' '22" '5 4 '4 4!ʼ - ʼ 45('7 1ʼ @7 =!ʼ 5 2' ; =ʼ (ʼ % ' ʼ @ ʼ (LUʼ
=2= '7 1 !
B , Cʼ %'?4ʼ 87@ (ʼ 5= !ʼ (?ʼ (55 ʼ !) 78 '5'(578ʼ ''!ʼ 4 5(' ʼ , ?= ʼ (:ʼ (55=ʼ M-

A K " ' !

!

FD)2z K 8' m ' 2 #-H8

!

KL ' 9 2' I# D) ' 8' FJ#)F2 8' q 2 ' Y8 h0'

JH 1# H , !' % ' ' + 28 G'

' ? " !' ?)<#JH822' 8' ?<#p# h' m ' H '

1;2 8' !' f

KLA' 9 2' ' ' !' ' '

7D , ' ' ' ! ' !# !' '

' # A ' D' ' ' +!'

' !

KL ' 9 2' ; ' ! ' ' % , ' '

' !' " !' 1#F#hH8' D)J #28' m28X'

q$ U Jc 8 H !' w' ? 22< ' 8')8JHJD)F# ' ,1Y

+8 -#-' ## @ 822)JHF-' F 2 8 -#-' 1#2#F-'

" 8+ H#G##' 8X' G8 #w' ' , Y

9 2' + F-' 1#2#F-' FJ 2 8#' -'

8 JH +8 -#-' # ' H8 E +F-' < -' - J

F-' +# #-8' SF#8I# ' /#JH822F-' 1#2#F-'

/2 #' 8X' #' #w' + FF-' 8-

9 2' E F-' X#I' ' < - ' # F '

/ 2 8' ##8 -#- ' E' # 8 # ' <8+G# ' ,BY'

F ' # ' - GF# 8F ' J 2 +8 ' I8+- ' 8- ' # '

28' ! ' + # #

9 2' F- # # F-' -8JF E ' JF ' # 8+#

1#2# ' +8G ' #-' I # ,SFwE ' # 0

F F+' ' 8X' 8E ' 8 ' 2##- Y' +FE8F-'

1#2#F-' #2# ' 8X' $#J# +F ' 2 #w' +

FF-' 8- ' 8 ' 2<# ' 1#2#F-' 8JH # , . Y

BJC' s7(4' 3'4' '5' (5551' 7571' M ' '5' =?24'(5=' =?';4' ;=5 4 55 7 ' '5' ?7=8' ?'8 ' 175 7 ' '5' 3 41!' ;= !' ' (' 7 ' (557(' M ' '7;'@'(' (' =;':78' = (' # ' '5' 3 =5';=' '(=!

B C' 0=;' (55=' M ' 2?3421 58' 8; '@8' ' @'8 =2(1' ?4' (8;3(2' =5 = 4 8'(' 4 ' =587 (' (?'] 4 55 '71' . 4 41' = 57:'458'71' '5 4 ' =5'<(;'(5(8' =!' !

B C' 41@4' 7 ' '8' (4' =5(8 4 '(' 0':4 5';(' 67^' 0''458' 87:?' (' 4 (5 ' 7 ' '5'%' ('] ' (2?' (9=5'8!' '1= ?!' @!' !' 5 4(' 4?'4 (' ;71' ;(@ ' '8' (?' 67=8' 4;2(1(5?=8' 1'8878' 4 (' (' . 4 4' 0':4 5'1' '(5(;3 (' (?' . 4 41' (9=551' 2?< '?71' 7 ' 8=@ (' (55!' Z' 67=' 41@= 4'@ 1845 (' '4'?41' 2?< '?=' 2': 71' 8771' ?4' =;'8' (5; '8' 5 ' '@84' 48 (= ' '5'%' (' ='51:^' %'?4' '5< (' (57=8' MZ' 4 ' Z !

?(15(578' 5=578' 4 (' ::(8' 0''458'8) 4' ' ,?=!' ::(4' '?4' 8=@ (' @(!' ' 5= !' M !' 4' ;M @ ;(5=' '=' ::(4' @(!' ZM' (55!' -' 4G78' =:' 71' 4<4 75' %' (!' '5' :5(2':78' (?' (55!' !' ' . #- ' 67(=' ::(4' @(!' ' (55!' , !) 0 5G78' =:' 5 (' 4<4 75' %' ('8 ' (?' (55!' , , ' ' 41674' %884 !' @(!' Z , ' 7:' (545' '5' 4 5(' (55'8' 45714 (5?'8' 4 (4' ?4@ 4345?' 7 ' 67(4578' (' ' 4 5(51' 4 4 4' 41@'884' 7 ' ::(8' (55=' -M ' 4 ' 49'884' (55'8' 99 ' 49'8 '1(58' (' :45451' 75=' (5 51' (55=' 49'884' 4'674' 4 5(71' @ =9'1=' 87;;488'884!) 4' 4 '54=') ' ::(4' '?4' 87@ (' (55!' '4 ' @(!' MM' (55!' -,!' 4' 7:54=' ' ::(4' ?4<75; =' (55=' -Z' '?4' (55!' -Z' @(!' , !' 4' ' 2:=' % ' ::(4' 6741' 884 '78' 849 71' 5714 (' '?4' (55!' M' 67=' =:'' ' 87@ (' @(!' , Z!' 4' 87;;488= 4' 4G78' (2:4=' " ' ::(4' '?4' (1'!' ZZ!)' 4' ! ' <'2'=' . 45(5'' ' ::(4' '?4' (55!' Z ' 67=' =:'' !' 4' =5(5=' 8' 4' @= '78' ' (2:4' ?2'=' ' ::(4' '?4' (55!' Z Z' 4 ' Z !' =51(2'=' ' 87;;488'884' (55=' Z Z' ::(41' ' 8; ':' ' ' 41(; 78' ?4'5?4' # ' ?7=?4;'151' 1478':78' 67(7= ' (55=' Z !) 4?' 4 = 41' ' 4@8'884' @(4' 49' '@8=' ' 41(;3= !' =:' 71' 45'1' = :454' 04 71' 141= (' (?' (55!' Z -!' = :454=' 9''1=!' ::(' 87;;488'884' (' ' . ' 9''' 1 !' 67' =:'' ' (55=' Z ' 7 ' '5< (' (?' (55!' '8 71' 4 ' ?4'5?4' 7 ' 455<(42(?' ''2'71' 6741' =:''884' '56''' ' (55=' Z Z!' (674' =554:(?71' :'8' 141= (' ::(41' @ '1=' (?' (55!' Z Z' (5 4' = :45&' ;71' 4 ' ,?=!' (?' (55!' Z Z!) ?'545' 87;;488'=5'8' (;;7 ('= 41' 493':4158' '5< (' (?' (55!' Z Z!

71' ?(15(5' =@4 4' ?4' =;'8' !' ;=5<4 (7 ' '54 ('71' =3(55'8' ?4' 0=84' 48:L 4 ' ' (:' 0'4 =8=2L1(' (55=' M' !' '5 4 ' E ((8' =?';48' 7 ' '5' 4G78' (578; '@ = 71* ((2= = ' 7:2'5!' ' @!' ''!' =!' , ' 7:' @27 48' <(:721' 5((5 7 ' ?4' 67':78' 8'24' ?(15(5!' 4' '=;'8' !' 8; '@8' ' $ ' =@58' 6==?' 4'] 14=' ('571' 4?'?' ' !' 0L4 =5L178' 4 ' L@'8' 4?'?' ' 4 ' 5= '8' '2'58 (' ' 1# # ' ('8!' ' 4 ' -M' <=2!' (?' ;(2;41' =1 145 ('= 71' 85= 71' '5' =87(1!' ?(15(5' 2': =8' '48' 49;4 @ =8' 49' = 4' ;72@3' ' @'8;=@'] (22';(5' ' 4?'?' ' ';=2(78' 4 ('78' 4 ' @=8 4(' (:'22=5'78' =2= 71' 72 (5 4' (::4= ' '5' =1= ' ' ':2'= 34;^' 5= (4' (578; '@ = 71 ' @!' Z' t ;!

" ' ! A _

! N

' ' h#<D)JH' <<' 0)<8<) # ' _' 2Y<D) # J, Y' ?<D)82D)#' I2#' 2 # -' ' ! @' D)+H 8J' <<J)# # _' 2 '.' _' # D) ' <' # < '?<D)82JD)<' 2#' D)#2 <D)#' #J2#)W)<0' JHD) D)' #22 #!H # 'J <D)# 8' D)' << JHDD#'<8' J8 <D)' '_' J8 <D)' D)# H8 8', Y

9 2' < ' 8JJ' :2 ' 2FD) D) D) # #< ' J' A' J9#2' ' < #9) # 8J' FD)#2 8' ' 8 82' h #H D)22' 8' ? 2I ' '_22 J 0' 2F#)#J 8' ' < 9)#' YD)#2 8

9 ' `m< <' 8' hF #JD) D)' 8' _28 E' #DD## 8' ` !' <'_' <8< 2' ; ' 'E # ' !' ' JD)J' D)J .<8D))2 # ' h 22 #J ' ' q)28 ' 8' 2FJ D)#' ')8D)<JD)2' 8' 8' ?c28 D)' #D)# 8' ,)Y' _' ' # D)2' D)J D)# #' 8' +# D)#2' 8' ?228 HD) e ' ;2 '2 D##<+ '?A2 '?A2JHD)#. @

I;2 2 '2FDD JH<D)' DDI <' D)<' ?) 0<DB@

D)' #<' 'q<##9)JHJ' # #F' 2 #-H# H' J< '2# H8@

m) ' 8' 2D)' 8@

'h#2c?8' D#' <E# 8@)) # 9'J8J

+-' &#+ H#' <#-J <#' /8+ 8 -#-' 8' + F-' 1#2#F-' / 82 #' 8X' G8 ##a' + FF-' 8- ' $+ 82#F ' # 8+' -- +#8 -#-' 8' G8 #8 -8-' 8'# #' JJ#-F-' 8-' / 82JF+' ' 82 E+ @ $2FI# +F ' # F E #' #' G8 # ' #' F'+#IF2#' 8XF 8+ +8 ' < - 8' +# F-' E#8 F-' 8' +# F-' J # F-

9 2' + F-' < +IF-' -' 2F 80' J #-' E#-< +F# ' #'8' + F-' < +IF-' KLB 8' F #G ##-' +#G# 8 ' + H8 -' , ## Y' & 2EF-' 1#2#F-' I# #' 8X' 2J2FcE8 0' -#-' + FF-' 8- ' # F-' + #' E8' 2 # ' ,KY

9 ' /# JH '1#2#F-' & JH E#' 1#2##' 8E #' !2 8 -#-' 8X' # 8+ #-8' 8' +8- 2o-' 1#2#F-' 8UF-' UFGF2 #' -F ' # ' <+ 82#' <FE' "+8 22 JH0E 22 H' <8+' 8EHF ' 1#2#F ' &2F Gc' 8G8 <8+/8+J 2#- U' 1#2#F ' 2#2E#' 1#2##' 8E #0!2 8 -#-' 8' <8+' G 2F ' 1#2#F ' G#' 1#2##' G 2#' 1#2##' 8E #' !2 8 -#-@ : F#8-' < +I#' +# #' #-' JHH 8 -#-

2# GF-' F)JH+ 8' H 8J' -J+#<-#'E8' /# 0' JH ' 8G8@

8F ' EF+F ' #E' /# 8 ' F ' H E#8' E8 #2#-' I#+ F 8' E81#J#8 8@^ JJ#-F-' 8--8' ' # # #J#-' < - SF ' +8 #-#--8' #-' +# F F ' F @ E F-' J8J# #*@

BpC' K' % ' . B' 3 =5!' ;= !
BUC' A' ' ' 1 ' ' 27 '(' 8(5 7p54(' '7' (45'('<279' !Q' ':!'
B <C' PP' '! ' - ! '! ' B' ':!

B-C' 4' 3=;' '?4=' '?4' 87@ (' (55!' !' =8' '24 4' 4 5(!' 455'78' '5'] ('(5=' !' @ 'M !
B C' 0=;' (55=' ;:4 78' 5 278' 49' 0':4 5'(' ?'8;4?458' 7:" 8(; '8' 8 7?''8' =@4 (1' ?4?4 (' '5'] 4 1(5'(1' (?' '8=548' 4' (9=548' ;=5 4 45?=8' @ =<';'8 ;" =27' !' 4?' 4=' '1@4?' =' E '22': = ?78' '5' 0':4 5'(' 8'1'2' 4' '58 ' 7 58' 4 '9" =;'" 4G78' 49' 0':4'7'(' (?' .34555" 45(' (5 48' =@78' '8 7?' 4 4 '4' 8@(2'=' @(7;= 77" (554 71' @4 <4;4 55 !' 4?!' ! ' ; !

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8ʼ hF J 2#D)ʼ < ʼ D)#+2#ʼ # <ʼ K ʼ
#U41)
<#ʼ 2 ʼJ8 ʼ ʼ <2 <D)# Hʼ #<ʼ D)JHʼ ʼ J

U_ 2 .ʼ J8
ʼ 8< ʼ < <ʼ <# ʼ #JHʼ ?m<# <D)@) ʼ <8#J ʼ
#<ʼ <# ʼ <9) H#)8e@8D) Hʼ J ʼ JHʼ J8< <W)ʼ
ʼ JHF#22ʼ D)JD)<ʼ < ʼ 2 #JJʼ #<ʼ <#E HD)

;2D)< ʼ D## ʼ 8ʼ)D)#2 8ʼ # ʼ 28 ʼ # ʼ
J< JJ ʼ 2 # <8D)JHʼ # ʼ !
KLK 9 2 ʼ ; # ʼ ,) Yʼ D)#22ʼ <D) + D)ʼ
0m<# D) 8ʼ 8ʼ J JJ ʼ <ʼ I #ʼ m_ F HD) ʼ
!ʼ ? 2#22 ʼ 8ʼ J J8 ʼ <ʼ < ʼ I_ F D# ʼ
0m<8< D)2ʼ A2# 8ʼ 8ʼ ? 2<J D)#28ʼ ,4Yʼ _ʼ
D)#2ʼ 8ʼ ;298 #)#-ʼ !ʼ <ʼ 2 JH8 8ʼ 8 ʼ
ʼ F# 8ʼ 8J#F)# Hʼ A2 ʼ #228 E<D)ʼ E # !ʼ fʼ
F 8 #ʼ I_ . < D)ʼ !ʼ) ʼ 8ʼ
ʼ ʼ I#28ʼ ʼ 28 HD#ʼ # # 8ʼ !ʼ ʼ
I_ F#<8 D)JHʼ I_ F#228JD) ʼ U ʼ : <ʼ

/ # JH 8ʼ 1#2#ʼ & JH E#ʼ < # #ʼ # G8 -ʼ
8+ ʼ +# F F ʼ FF @
8+ʼ . ʼ J8 8 8ʼ I8- ʼ J 8 #-ʼ --F8 8 ʼ
8 ʼ SF 8I#-ʼ -ʼ JF ʼ -F ʼ # F2 ʼ J #
8

2# GF-ʼ J8J# #
$+882#F ʼ # ʼ SF ʼ JJ#-F-ʼ 8- ʼ / # JH @0ʼ
$ - ʼ < J8 ʼ #-ʼ # # ʼ 8G# @ ,_Y

JJ#-# ʼ H Ew#ʼ 1#2##ʼ / 2 8#ʼ # ʼ I 228ʼ + 0ʼ
J# E ʼ G-8JHF-ʼ +8G +8ʼ # J#<#
9 2 ʼ FGF2 # ʼ ,CYʼ 22#0J+ E ʼ
/ # G# 8F-ʼ 1#2#F-ʼ #0J8 0 #+ʼ 8Xʼ
#wʼ +# F+ @ 2#2EF-ʼ 1#2#F-ʼ 8UF-E8 ʼ
#ʼ 8Xʼ #wʼ +# F+ ʼ / 8+G 2F-ʼ
E 88 -#-ʼ 1#2#F-ʼ + G 2## ʼ 8 ʼ / # 2ʼ 1#2#F-ʼ
8 G# ʼ + F#ʼ -F @ JH8 #F-ʼ < +IF- ʼ
; #+ʼ E J F- ʼ -ʼ 9 #2E +8 -#- ʼ UFGF2 F-ʼ
8- ʼ F # 8F-ʼ GE + 8 -#-ʼ ## ʼ 0ʼ
G #F-ʼ 1#2#F-ʼ G#ʼ 1#2##ʼ G 2#ʼ 1#2##ʼ 8E#ʼ
! 2 8 -#-ʼ h+ FF-ʼ 8- ʼ F#+8 EH JHʼ F0ʼ
#228 ʼ 8Xʼ J#wʼ #-ʼ ʼ ,LY

B Cʼ Kʼ 7 72ʼ ʼ ʼ Bʼ t ;!ʼ 3 =5!ʼ ;= !ʼ 55(2!ʼ 2 !ʼ]M- ʼ A Aʼ !ʼ M !

BZCʼ ; '@ (ʼ 875 ʼ 4 878ʼ '8 "ʼ !ʼ =2'5 ' ʼ ?'=1 (4ʼ 4 78 =ʼ =4 (51 ʼ 0':4 5458'71 ʼ 65=?ʼ # ʼ . \ ʼ ?';4&ʼ :(7 !ʼ 2'= 7 (ʼ 48 =ʼ 845871ʼ 4 74 4)%4 :(ʼ (?ʼ 2' 4 (1ʼ (582((ʼ '9ʼ 72271ʼ 845871ʼ 4<4 75) . 48ʼ 48 (4ʼ (?ʼ 67(8ʼ 48@';'75 ʼ 875 ʼ '8 (4) !ʼ =2'5 "ʼ '5 4 ;488'=ʼ 54ʼ (1@2'78ʼ (?' 4 45 7 ʼ (45'45848ʼ (?ʼ 8=2 45?71ʼ =71ʼ ':7S 71 ʼ 67=?ʼ 4'8ʼ '1@=87' ʼ 7(2'(2'78 ʼ 7 ʼ 87@ (ʼ 141= (7 ʼ (ʼ ' 4 5(;2'= ʼ @(!ʼ ,M ʼ 4 ʼ . 41'88'=ʼ '8 '78ʼ ':7 "ʼ ;=5S ;488(ʼ (ʼ . 4 4ʼ '(5(;3 (ʼ '5 4 ;4?45 4ʼ !ʼ =2'5 = ʼ ' 4 (674ʼ 1= 8ʼ '5(;3 ('!
45871ʼ '2'71ʼ :=('71 ʼ <(:72=84ʼ 45((5 ʼ (2'R!ʼ] (;'(578ʼ 7;'78ʼ '565') [[ʼ =58 (:(ʼ 49ʼ) ʼ ʼ :=:78 ʼ
Kʼ = '?41 ʼ 8''':78 ʼ = '?41ʼ 42(1'5':78 ʼ = '?41ʼ 4 4;':78 ʼ = '?4 (ʼ ;(45'8 (45 X'8 ʼ = '?41 ʼ 24:4 ':78ʼ (454'8 ʼ
Kʼ 42ʼ ;7@ 4'8 ʼ (1ʼ ;(@(;':58 ʼ 7 ʼ 4= 71 ʼ 8'5 72=8ʼ 1(5' 7?'54 (ʼ 24:4 '8ʼ 4(1= ';' ʼ '5ʼ 67=ʼ ,1!ʼ := 48 ʼ = '?41&ʼ
Kʼ 654ʼ 8748ʼ 75(ʼ ;=654:(5 7 ʼ 498467(4ʼ =@= ''4 ' !ʼ 0'8ʼ (?G75 4:(5 7 ʼ ʼ ;(5?'?1ʼ 42ʼ 7: (4ʼ := 48 ʼ 67(71ʼ
Kʼ 8'5 72(8ʼ 8=78ʼ ' 7278 ʼ ;=2= 4ʼ 1("ʼ ;=5<= 1'8 ʼ ;=1' (:(7 !ʼ = '?41 ʼ 4 '(1ʼ (54(ʼ '5;72(ʼ 67 (ʼ :=7 5 ʼ 87:ʼ 4; =ʼ
Kʼ 8 (:72(5 '''1 ʼ ;=?(ʼ 4 ʼ (2'(ʼ = '?41ʼ 4 '(1ʼ (54(ʼ 67 (ʼ @4?48ʼ 4= 71 ʼ ?71ʼ 172 4 45 7 ʼ (8 '5 4 45 !ʼ 0(5;ʼ
Kʼ 172; (1ʼ (ʼ ʼ + - ʼ . 4 4ʼ @ '171ʼ ' = ((1 ʼ 67= (55'8ʼ (45'45848ʼ ʼ 0':4 5' (ʼ . 4 ':78 ʼ 4ʼ
Kʼ 7(3(2'"8 ' @4ʼ @ =; 4('8 ʼ @45?4:(5 !Qʼ (1: !ʼ 4 4 8!ʼ @(!ʼ Z H
B Cʼ 7 72!ʼ ʼ <'2'"ʼ ʼ # Bʼ 55(2!ʼ 2 !ʼ (55!ʼ M ʼ ((ʼ !ʼ M-!
BMCʼ :ʼ 3=;ʼ . 4 4ʼ =55(;' (ʼ . 4 48ʼ '8 ' ʼ 4 ʼ 4= 71 ʼ @=8 4 '!ʼ ʼ g5 # -ʼ 5=5ʼ (=ʼ (@@422(5 7 ʼ 7 "ʼ 5= (5 ʼ 3 =5!ʼ ;= ʼ '5< (ʼ @(!ʼ , , ʼ =2 (('8 ʼ 4<(2''!ʼ 7 4?(;378ʼ '8ʼ . #- ʼ ! ʼ 87;;488' ʼ 7 ʼ 87@ (ʼ 4 ʼ '5< (ʼ (?ʼ (55!ʼ Z ,) 3 =5!ʼ ;= !ʼ 4 u'2"=:' 71ʼ (?ʼ 375;ʼ (5571ʼ 4<4 458 ʼ (' O . #- ʼ ʼ !# - ʼ 0 # ʼ ! ʼ ʼ B

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9 2' D)1#D)E ' +F)') #

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' <#' 9)' #9##<J ' _' ? 28 ' #<8D4# ' 12'-H'

D)2D)<D)# H8' DDJH 8J ' + w' K * ' !'

!' ' 8< 8H' ?!' F' Y<8JHJ<D) '

U; '?< <#) W) ' ! #228' D)<D#

9 2' K ' ' ' w' !' " !'

#!' 8 " ' # ' ' + !

9 2' ' ' , " ' ' '

, ' J !' 7 , !' ' / ' <8 E' '

8 HJ 9 ' ,610Y' e ! ' ' _28 HD)'

9 2' ++ JH# ' 8X<F2-F-' 8' +8G# # 8 ' KL_

/ 8+J +F-' 2 GF-' +# F+' ,# ' & 2+# E ' 20'

#J Y' E F-' +8E## ' JF ' < J8' H J'

' # ' # 8+ # ' , Y@ $+ 82#F ' + 0'

JH-8' F #' J8J#E# ' / 8+ EH JH' 1#2#F-' 828E 0'

G# ' 9 GF-' F JH+ 8 -#-' H - 8+##'

-' ## ' # ' 8 ' # 8+' +# 8- ' 8 ' $#J #'

8+ #W' I - I8+F ' +# # ' ,# ' 8 ' G+#'

E#8' E#J #' F H Y

9 2' $+ 82#F ' # ' + #2# ##-' +8G# # F-'

" ++ - # +F ' # ' / 8+ G# ' F #' J8J#E80'

+F ' J +F-0 JH ' 1#2#F-' 828EF #'

8X' + 8+# +F ' ,# ' 8 ' +#8 2#F Y' 8 '

8E0 #+8E' 8X' & 2 + E# 8@@$+J82#F '

8+' ! X 8- ' 8 ' $#J - ' F #' J8J#E# ' 1#2#F-'

8+ # H# ' SF#' E#J8 F+' +8JH + #G ' , Y

+-' / <+ E #' #-' 9 #2E +8 -#-

9 2' $H#2#<<#JF-' ' F ' 8 ' 8 -#0' KLL'

F-' I#' +8G ' , AY' I# ' - + G8-' # '

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9 2' JJ8 - ' 8- ' I# ' + 2# -' # ' _ '

8+ # ' 9 28 E#-' / 8 + ' # ' J < ' +8G '

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B C' K' " + -' # - ' ' $ B' 3 =5!' ; = !

B C' ?' 0 ' : 4'5'(1' ' 4 7 1' 4 4 '884 ' 84@'4 (' (55'8' 8(2 4 5' (5 4' = : ' 5 1' 8V' 1 ' 5?'; ('%' (' (5 '674'] ' (2?' '
('=4''8'8 ' 65A' 5 ((' ! ?(1 5(571' K' 49'884' ; ;248'(1' '8 (1' (55'8' % ' @=8 ' = : ' 5 1'] ' (2?' ' =27 1 '5('
K' ; =58; ' : " <(; '458 ' (674' 1 (57' @ =@ '(' 2' : ((' 67(7= ' (5 42'= 7 1' 8; ' : 458!' (1@(5(8' 4 '(1' (?' 4 4 45 '(1'
A' ; ;248'A' <(: '<(; '458!' ' ' ; '% #" ' ! ,$ ' 4 ' ' : " <X2' ; ' 4 ' = : ' ' ' 4 ' '5' '8 =' 84@52 78' 48 !Q
= d ' 884 ' 8' 49' ?' ; '8' 1 4 (;3 =5'8 1=' 4 (4' 55(2!' 2 !' (5' (55!Z ' A A' !' Z , ' 7 : " '565'75 ' !] ' (2?5 ('
4=' (55=' = : Y884!' ' ; 4" 4' (1 : =' ; =58'8 4 4' 5467475 ' N' 4 ' 55(248' @= '58' 65(1' %' (('] ' (2?" ; = ' 45?=8' 4884 '
'5?' ; (' ?(1 5(' ' " 1 = (' '5' 0 ' : 4 5'(' (: ' (55=' MZ' 78674' (?' (55!' Z !' 55=' 45' 1' '8 = ' = 4(2'7 1' 0 ' : 4 5= 7 1'
@27 ' 1 =8 ' 4 ' <4 4' = 1 548' 67" (: ' 0 ' '458'5 1' = 1 '5'=' @47?4 : (5 ' '5' =55(; '(' 2 =5'(' 4 ' 5872'8' (?G(; 45 ' : 78 ' (?'
. = 1 (551' (8 ; : (2'8' = : 84 (5 'A' ' 5 (' @4 ?79' !' 4?!' !- ' ! ' 4 ' !' ' ; !' , , !
=8 ' (8 ; 3(' (5=5' ; 7 1' '5' 0 ' : 4 5'(' 84 (5 1 ' (55=' Z ' 0 ' '=5(1' 4 4 8=8 ' = : ' ' ' ?'4' , ' ; = : '8' (55" '8 '58 '
42' (55" Z - ' : : (8' 5=578 ' ; 7" 87 ; ; 488' ' ' <'2'78' (2 : 4' ' ' (55'8' ' ' B 4?!' ! ' ; ' ' 4 ' , , C'
78674' (?' (55!' Z !' %'?4' 5= ((' 87@ (' (?' (55!' M , ' 4 ' '5< (' (?' (55!' Z ' 4 ' Z i !
B C' 3 =5!' (9=5 ' (?' (55!' MM) K' 0 = ; ' (55=' ' ; " @4 41 4 75 ' 4 3 5 1' A<4 ; 7 1 !Q) E 48 1 =5(8 4 '458'8'
3(: 4 ' K' # # B' ' 4 5(; 378' K' # # - B
B ,C' 1 @4 (' ' 3'2'@@' ; 78' (' 1 = 4' 78 '5'(5" ' ' ' (55=' Z ' (?!' (55!' Z ' 67=' 4" 87 ; ; 488' ' 5(8 (8'=8' (55'8'
?7= : 78 ' 78674' (?' (55!' Z -' G' ; 7" 87 ; ; 488' ' 34=?=8'78!' !' ?4' %4 '<'4 ' 248' ?(48 ' ! ' @!' , !

AA " ʻ !

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#8# J#F ʻ ,IY ʻ ?<#E # ʻ 8 ʻ ʻ F #J D) D#
ʻhD)2 <D)# ʻ _ ʻ 8 ʻ <D,82D)
8 ʻ F# 8 ʻ ` ! ʻ 8 8 #2 1 $/ B ʻ E # ! ʻ
?22 < JE ʻ 8 ʻ <F #+F)#2 m ʻ 8 8 #2 D)# ʻ
ʻ # ʻ ʻ ʻ 8 ʻ !# A ! ʻ
7 ʻ w ʻ K ʻ U ʻ ʻ ʻ , !
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! ʻ ?m<#D) ʻ 8 ʻ 2 #28JF#28 m ʻ 8 8 #2
D)# ʻ ʻ <F 82 2 D) ʻ 2###0
FD)JD)#22 ! ʻ E## 8 ʻ F# 8 ʻ m2#
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!28 # 00000/# FG ʻ 1#2# - ʻ '& JH E#
8X ʻ & 2 + E# 8 ʻ ʻ /2 F- ʻ 1#2# - ʻ 8 1 0
2 E## 1#2## !F 8# ʻ 8X ʻ J2#8 82-8 ʻ G # ʻ
U #GF2 # - @ # + - ʻ 1#2# - ʻ + 2## ʻ
8X ʻ 2#8 828 ʻ G # ʻ +8G ʻ 8X<F2-F- ʻ
ʻ +# # ʻ <8+G# ʻ / 8- ʻ 8 ʻ <8- #0
28 # ʻ +# F- ʻ #- ʻ # ʻ # 8+ # ʻ 1 J ʻ 8- ʻ
F ʻ H ʻ H # 8 ʻ J 8E8+8 @ /2 F- ʻ
1#2#F- ʻ 828 F2# 8X ʻ J2#8 82 8 ʻ G # ʻ
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+ ʻ ʻ # ʻ # ʻ _ ʻ + ʻ ' A ʻ ʻ ʻ ʻ R ʻ ʻ
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" ! V ʻ , ʻ ! ʻ ; (a ʻ ^ 3 ʻ 4 $6) > 8 " ʻ !

2# E ʻ q 2 8 #<8 4A2 ʻ 2FE EH#<E#<h ʻ ʻ ʻ
_2#2J ʻ 8 ʻ J8 < ʻ I # ʻ I ; #F Y#E ʻ ʻ
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* ʻ D2m8#22 8 ʻ 8< E#-H ʻ h# E# ʻ H ʻ
E<E ʻ Y#< E2 ʻ ʻ E# ʻ ʻ !
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2 F- ʻ JH +8 ʻ - ʻ 2F 80
J #- ʻ + FF- ʻ 8- @ 2#2EF- ʻ 1#2#F- ʻ #
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+F ʻ + FF- ʻ 8- @ JJ#-# ʻ # 22# 1#2##
8 G# # ʻ E +- ʻ +8G# #- ʻ -- ʻ +G 20
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1#2#F- ʻ 2#2E# 8X ʻ #w

_ A ʻ 9 0 ʻ 1 ; F#<8hHEJH I_ F#228JHE ʻ m <,IIY
ʻ ʻ ʻ Y#< E2 ʻ 8 ʻ E# ʻ ʻ 8 U

9 ʻ F#+8E JHF-0 F#228 H ʻ 8X ʻ 0
J#w ʻ ## ʻ , BY ʻ +G 22F- ʻ 1#2#F- ʻ G#

B C ʻ 5 ʻ ' 1 = 1 ('54 ʻ =?';'8 ʻ '':2'5 ʻ 3 =5! ʻ ;= ! 3(T; ʻ 24 75 ' ʻ 67(4 ?4855 ʻ '5 ʻ =?! =?2! K ʻ ʻ # '5 ʻ 3! (5!
K ʻ ## ʻ ʻ C ʻ $ ʻ # ʻ # # ʻ ʻ # # # ʻ C ʻ ! $ ʻ - ʻ $ ʻ - ʻ C # ʻ 1 # ʻ ʻ B ' ! 4!] 427 ʻ '5 458
3=; ʻ (55= ʻ ' (ʻ 7 ʻ 42(45 ʻ 2(;58 4 ʻ <271'5(ʻ 0':41' 4 ʻ 4 ʻ 1(4 p5 4 ʻ 2:(5'(1 ʻ 4 ʻ 0':4 5'(1 ʻ 4 ʻ (58' 45 ʻ 145 (!

B C ʻ 0A; ʻ ?4 ʻ :4 = ʻ 4; 4 ʻ 4<4 p ʻ ' 4 5(;358 (? (55! Z -& ʻ 7 ʻ '5< (ʻ (? (55! Z ʻ '
B C ʻ % ʻ ('8 " '5 ʻ 55(2':78 .((22(;351 ʻ 07(?(;3" <'2'71 ʻ =55(;'A .4 41 ʻ '5 4 <4; 71 ʻ 5((5 ʻ (55= ʻ - ʻ
4 ʻ 4(22(;371 ʻ 4G58 <'2'71 ʻ =5(8 ';(1 ʻ '(1 ʻ ʻ (1@24951U =:''884 (55= Z ! 2'?41 ʻ 55(248 X571X (5 ʻ
) # =55(;'A .4 48 ʻ 67" '5 4 ʻ .((22(;371 ʻ 4G78674 <'2'71 ʻ ʻ 4 5(4 75 ʻ 0 # ʻ !

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E # !' * bb!42:=:bU<" 0 :' 2=;:bU'G' G'
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9 2' D)J' ' F#2# ' 9 ' ? 2#U ' ' '
*)J ' 8J' 2+F' _' *YU #J #' !' !' 7 '
" ' ') '
#2JF' Uf ' !' D)J' <D)# ' 2 '
822 J ' 8' _' 2 ' YOD*#S ' ?!
!' 2 # I'8D)J' #8' 28 D) m ' 1' J'
' ' ' !@ ' 2<J D)2' _' J '
_' q ' B C' Z' $! ' 8' 2 8
_' ' F # 8< ' _' ' F D)#28 _' ?m)8< F#4
?< <J<DD#' ' _' 9)22 D)< '_' !' ! '
' !' & !' ; !' , Y " !' ' '
+ ' !' ' ' A' 8 22'
8' m2D(922 # H' ,#U'Y " ' !' 2 9 '
8' ?)# #<' ?A ' 2#<1 # #<' ' A' ?A2#2280'
+ # ' # 8 ' E ' I

9 2' % ' ' ' # @'
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' +# #-' UFGF2 F-@ / 82E +F-' -'
2 JH +8+#-#-' ## ')
9 2' $+ 82#F ' J <#' " F#2# ' # ' +E#- 2#0' _ '
8 82 8' JH +F ' ,#' 8' # ' & 20 + E# Y'
8+' 2#E# -' 8' +# 8- ' #' 8' 1#2# '
EHG E#' EI8+- +#F ' JJ28-# +F '&8#'
> #E#' I#J +8-' 8+ @ $+ 82#F ' + #-8'
G8- F ' ' 8 22 JH ' 1#2# ' G 22 JH#' 8' '
JH 8 -# F-' # ' SF ' J8J#E#' G-80'
JHF-' 1#2#F-' #8 GF-##' 8X' 6 # 8 # 8' F '
JF ' # F-' 1#2##-' -F#-' #' 8' + G 22F-' 8'
JH JHF-' 8' / 2 F-' FE X' 8' EF '
1#2##' 2G8 #' 8' &F E# 8+G##-'1#2#F-' &F G 2#'
8' / 8+GF-#F-0# E8+ F-' 8' 22F-' +0'
IF-' 8' J 8 8+#' F2 #' &FJ8-' #I E' F2##' I#'
+ 'E#8#' ! #' H J' 822F 'J 18J F ' 8- '
8 22 JHF-' 1#2#F-' G 22 JH#' I#J +' 8+ '
S2 F-' 1#2#F-' / # ++#' -' #- 0'
+8 -#-' + FF-' 8- ' ! 8+#F ' -F2 8'
EF +F ' 1#2# +F ' 8E#1#J F+
9 2' H8 E -#F-' ' F ' +8G ' , .Y' _ B
,)SF -E ' E8' H8 E -# ' 8X' 8E
F +Y' ! + G8-' & 2+# E +F ' # '
; 228' 8 8 00000 E F-' ' __

4`6' a '3';'?'8 R5 1 1 5 ' '5' ?(=8' (55=8' Z ' 4 ' Z , ' '5' 3 =7!' ;= !' 24 55 5 ' 87:' (55=' Z ,' '5;'@'45 4 ' (' =;4'
;6 #
B C' [[- #- G' 3 =5!' ;= ! B C' K' ' ' - \ ' ' 6 B' ':!'
B C' A' ?' 7 '!Q' 3 =5!' ;= ! B C 99 '''!Q' ':!

=5(2 " ?''5 1 ' ' =55(;'84' . ; 41' 3 '8 '(55 1 ' 1= 75 1' (55=' , ' ' =2;(5" <'2'5'5' 9'1!'
(55=' ' =57;3(?5 1' (' '1 7 1 ' (42?7:'" <'2'' 1 ' ' ?4<754 5 1' (55= ' 9''5' '4 ' 1= 55 1' (55=
M !' 4 1= (7 ' . ((22(;378' '5' %' (' 4 4 4'] ' (2?" (3'=7458'8 ' ;!M ' '5' ; '8' !' @ !' 4?' '5' '8 (' ' ('
?48'?4 (5 5 ' ('=548' 3 =5';(4 '67(4' 855 ' =;52" 0 '8 = '(8) 71' ' 41 (;3=' ;=5 45'55 ' '5' (55=' =:' 78' + # '
- ' =55(;'(4' 55(2!' !' (?' (55!' Z ' 67" 48 ' 1 (4' ;=1!' Z ,!' %' (!' (?' (55!' Z ' 47 1' (@@422(5 ' 5 4&'
?(;37 1' ;(1@" ! ' 67'(' @ 1 ;'@1 '1' ':" @=85' ' ''5'1 45 5 1' = '78' =55(;'1!' (1@58' ! ' 45?4 :('@4 ' = 5 1'
<4 4' (71' . =8;=1 1=545841'0' 4 1 '5" (?' = '45 41' <74 4' 45(578' <27 '78' ' (?' =;;'?45 41' 74;(' <275'45' (?'
:= 4(1' 1=5 48' ?'; " #@ $! ' ' ;= ''@ 4' # ' (?' (78 5 1' (1 := <27 1 '5(' @ 1?'; (!' 4(22(;358' '(8'
] 7('" 65" =:'' ' (55=' - ' 5=5' (@@422(= * . 49 ' o4674' (@@422(= ' . 49' ' . ((22(;3" ''2'58 ' 65" =:'' ' (55='
Z ' G79 (' 4=8?4 1' %' ('8 =8 ' o4674' - 6 '] 7('" 2'''78' 65" =:'' ' (55=' 'G79 (' 4=8?4 1!' 4?' 6 '
. ((22(;3" <'2'78 ' . 49' =55(;'1' (@@422(= ' '5< (' (55!' Z -!
B -C' 34=?=8'=8' ? (1 L 4558' (57=8' ;' ;' 4 ' ?7=8' 1@4 ('H ' 78654' (?' (55!' Z Z' !?4' 4 !' 248' ?(48 ' ' !

AAA " ' !

! !

' @)y22S<<#+H' ' CTT ' ! !' q<#) #h0' ?$# 9)' 2 ' 7m #|H' ' + ' ' # H#' 0 8 22' F 2 # ' ' ' ' # ' ?' '2Y K JH _ H' I_ #| #8' '5 ; ' ' @ 1 ; !' 'U - @ ; ; 3' 3'' ; 4 @ 5 '8' !' !' !' ' $ ' ' ' ' ' ' ' ' / ') , ' ,) Y

w #-' , KY' -Fw' # ' #X' 9 2' J +#-' -' 2 8' ## ' , _Y' 821+# HF-' 1#2# -' - ##4' #'8' /2 F-' 2 F-' ' # 8+ 8 -# F-' <<822 F-' F-SF8' H E#8' 8X' ! X F ' 1F# ' #'8' 1F8+ ' , CY' ' ' ' 822F '# ' SF ' +#J +' 1F#' 8 2 JHF-' F 22 8 -#-' # ' SF ' J8J#E#' E 8H EF-' #E8 -#-)' 1#2#F-' &# + # ##' / G8+ JH' ' 8+ #G' , ' 9 8 + Y' 1FG#

B%C' =8 ' =:' 7 1' ?(1 5(5'' 3 4;' 846775 5 ' '5' 3 =5!' ;= !' (55!' Z !) K' 4225 1' 1 # ' 7 :'' '; = ' <7' ' K' 6 @ ' '5' 67=' ;4;'?' ' $ ' + ' ' # ' . - ' ' # -' <= ' !Q

B C' 4 45' ' (?' 4(5?4 1' 84 (4 1' !' =27 1 : (' 4<4 45 4' 4?(' ! ' !' !' 1 :=' 84@72 '' '5' O'= (' G79 (' K 475?4 1 !) 4' =2=1 : (' E (2(< '?58' (:=' '567') 5872(' '; =5' 1' 67(4?(1' 1 =58 (5 ' '5' = '8) 27; ' (=' K' 78@458(' 8('=' ;= 5=1 '5'8' . !) s7(' 8(5; 58' =1 '5'' 467'48;' ' ;(54' =25 1 : (!Q' %' (' !' 2(3 1 (;' ' 4?' (' (' (5'8'=' 5 '6!' 4; !' =1 ' ' @(!' -Z,!

B ZC' ?(1 5(578' 5(78' 48 ' (55=' , ' 7 ' 87@ (' @!' Z' 4 '=:'' ' 5=5' 4 5(5 4' '(5(;3 (=' 4 4' 7 ' 8; ':' ' 7 24 ' '5' ' (' 4G78' 84?' (55=' 72 ' 1=' M - ' @ ' 1=' - !) . 4 5(5 4' '(5(;27(=' (' 4 4' '8 =' 1 '8878' 48 ' 4 (78' (?' 2?< '?7 1' (55=' !' ' ' ?4'5?4' (?' '8' (5?7 1' 2?< '?5 1 ' (55=' Z' ;7'' @ 1 845 (' ' (55=' '8 =' 2': ''1' 857 1' ?4' =;'8' (5; '8!) %' ('8 '' 4G78' =:' 5 1' 4<4 55 ' (?' Z ' 4 ('=54 1' 4G78' (?' (@ ' =8' 4;2(&' 1 (5?=8' 45((5 ' (?' (55!' ',?(1' 4 ('=54 1' 4G58' 4<4 75 ' (?!' (55!' !' 5;4 7 1' 48 ' 7 ''1' 4 ('=' ' (55'' 54 1 @4' ' 1 '88(' <74 ' ' (?' ; < '?5 1' 42' 2?< '?7 1 ' ;7 1' (1 :=' 4 5(4 '5 ' (55=' '8 =') 5 467(1' O''458'8' : : (8' 424; 78' <7'884 ' ;=5?'?' ' ?' 4 8(' =5(8 4 '(' '5' O' : 4 5'(' % ' ' ! ' # ' # ' @ =' 67' : 78' 8; '@8' ' K' - ' ! B

@78' 4G78' ?4' %' (' =27 1 : (4' 4?'?' ' @ ' 1 78' (5'8'78' 49' !' E '5?4 : 4 4584' '5' (('(' ?4'5?4' =2 (578' @=8 4(' (85('78' '5' =1=' ' 348(7 '' =57 1 45 (' 5 V4 @'1' Z - ' @(!' Z ' ?4 1 5 1' 49' =?';4' = =5!' '5m4 =578) @78' ?4' =;'8' !' 4?'?' ' (:'22=5'78' '5' 8 4;! !' 454?! ?(1 5(5=' 87; ; 488' ' =5('578' : : (8' O''458'8' '7 ' 87@ (' (?' (55!' M, ' 4 ' '5< (' (?' (55!' Z Z!

B C' 5' O' : 4 5'(' 4 '(1' ! 1# ' = 37 1 : ' 4' . 49 ' (1 ?'5' 1= (278' 48 ' ?7 1' '' #' ' # % # ' ' 4 (?4 4 ' 48 (5 4' 4?(' '674 5' '?4 1' 4?(' ?';') K' '% ' % # $ ' ' - $ ' # ' M ' % # ' K' ' $' # ' % 1 ' % '% ' < E' 4?!' '5'%' (' 7 3 : 4 ' ' ;!' , ' (?' (65! -!' (5?4 1' 4 1' ;=5<' 1 (' '5'%' (' 4 ';(' 7 3 : 4 '' 3'8' 4 : '8)

;= = 7 1' 67'' 7 5' 4 8(78' '5;='(' 4 '8 ' &

1248 4 1' '5 45 =' 8@' (: (' ;= ?4' 8=@3'(1 ' t ;!' ;!' , !

O(4;' 49@2';(' (2 1 48 : 7 '458'8' 8';) K' (4 '=54' =@ '1 (5 1 ' 67(1 '8' 845'= 4 1 ' 4 5=' '5?' 57 1' 49'8 '&' K' 1 (5 '7 1 ' '5' < $ ' 845' '' 845' '5?U5('=54' 84;488'884' ' ': '674' 4 ' (:' =?'='] 4 1 (5'' 7 (1 ' 4 ' 1 (5=' ='=I' K' 2' 4 '8' ' 1 : 5 5 1 ' ='55'' : '2=8=@3'(' ;=1@=87'884' (5'1 5 1!' s 5=;' ;(' 1 @4 ' '' : (:45(8 ' 1 42'= 4 1' (48 ' 1 (5 48 &' K' 67'' 67=5?(1' 49@724 75 ' 5' =' 49@4 2 4 75 !Q' 4' 48 '8' . 4 5 1' !-!

] ('(578' 7;'78 ' @(!' , ' '567' ' K' 5' I 422';(4' @ =8(@'(' (:52'8 ' (@7?' I 7 4 (57 1 @ =?' 7 1' 48 ' 2< R?'' K' 1 (4 1 ' 49' 4(' @ = 45'4' 45' (1 ' . ' 5=1 '54 ' =2 1 (5'' '?' 1' . 4 '8' <'2'(1' <7'884 ' 4 ' 2< '?7 1' . @' A' . ' 4 '(1' 5=1 45' 4' 1 ('8' 5=1 '54' ?4?74 5 1' 4 72'884!Q' ':'?!) 4' =4 1 (4' O' : 4 5';=' 4'' (?8; '@ =' '?4' ': 2'= 34;(1' ! = 5 1' =V458'7 1 ' = 1 !2 ' 5?';4 '%=;4'!b 'B < '?B8!' 2'(8' K ' ((2= 74' =<' : 4' !=<' =V4' ': (L' 7;m'5 3(1 ' =!' ;?!' ' @(!' M-!) ?(1 5(558' 4 ('=5 8' (?' : =54' . 4 4 1 ' 1';7 1' 877 1 ' 1 4 1 = ('' '5' ' (' =27 1 : 84' !' , ' ;!'

9 2 ' ' ' ' # ,4Y
~ ' ' ' ~ ' + ' '
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' " !

8D) # #)82 s# H ' H #Y<#J8' ? 2
JHD)#I# " !' D)+H <J #<FD) 'H
' !' 828JH #<' 8' E ' 82# ' 8'
I D) 22D)# ' I # H h< ' / ' !'
DD2 # ' ' D DD $ ' ?m<8< F< ' #eDD_#DDJ
' !

9 2 ' .DDJH DD hDD#<8' _ '
DD #h' ' ' DD22<DD# '2#8' 8 +H ' ' ' <2<
.DD22UF<J' q#2 ' 2FDD_ DD + DD Y #< !'
Y<F# '8' !' h 8<#28' !' s ' J DD< ' I `2DD#280
_ ' 8 8 +2' DD <<<8' ' ?)2DD #h0 8 2DD'
8' JDD '2DD ' : 2 ' ? #< J ' '

9 2 ' h ' DD F#< ' !' 2_# <8JHJDDJH
' h J DD I2 ' 8 <DD h< !' A @) 8DD< DD2
8' U ; DD#28 F# #]u!' 8 8 #2' 8 HDD ' _

9 ' 8 ' #-' #X' +8G # ' , LY _ .
' , : F-8E ' E8' ! ' FGF- c #' J +< +8'
#J# F ' + -2 ' # F F+ Y

8 1 82 E#F-' 8< -' 8EH#' J 2 #
-' 8 8 +8 -#- ' ## 00000 $+-82#F
+J + 8 -8' F #' J8J#E# ' 828JH +' 1#2#F-'
#' 8 22 JHF-' 1#2#F-' G 22 JH# '
8X' J# 8 ' < - ' 28+#J F ' # ' ,A Y'
G 2F-' # 0 G +' 1#2#F-' / 8+GF-U#0 / '
+8G +8' # J#<#
9 2 ' & JH ' &8++8 -#- ' 8 ' --8 #F- ' _ K
#' 8 ' / +8 8 -#- ' 8' 2+ E##-' 81#! 8' + F- '
1#2#F-' " 22F- ## ' -' 2F 80 J0 #- '
+#F F+ ' +FE#F-' &8+#22#' 1#2#F-' + FF-'
8- ' ,A Y' J +F-' 1#2# -' 828EF # '
8X' J2#8 82-8' + +8# ' +# F+ @ / 2 0'
/ 8 2 ' 1#2#F-' ! J #E #' -' +E J F-'
+ FF-' 8-
9 2 ' E+ ##F-' / F#+8 -#-' # @' _ _
E+8J JH' 8X' J# - ' # ' +8-' < + 8-'
E# I#-# 8 ' +# F+ ' ,AAY' / 8+G 2F-' 1#2#F-

BJC' s (9?(1 '3';' = 1 ' 75 7 ' '5' 3 =5!' ;=' ' '?4=654 ' 4 '67'(' 5= (' 875 ' 49' (=2=' '(;=5= ' 4 ' 5=8' = =' ' 1 78!

B M C ! ' 8(7 ';78 ' ?4' 67=' 3';' (' ' ' 41 (;378 ' 5=5'(:' (55=' Z -' 1 @4 (' ' 84?' (:' (55=' Z Z!' 5?'; '=54' - '
(' " ?'4' , - ' 7 ' 8; ':' ' 34=@3(548!!& 4' =;bU88'=5':78' '5@4 (= 5 1' '45 '8 ' '?4' 87@ (' 5= (8' (?' (55=8' MM'
M ' !
B, C' 4' 4(22(;? =' 3=; ' ((22(;3" <'2'=' '?4' 87@ (' 5= (1' (?' (55!' Z , ' ;7" (?G';'45?7 1' 48 ' ' 41 (;37 1'
'5 4 ' =55(;'A' . 4 48' 57 1 4 (4' (? 5457 1' =2 1 (5" <'2'5 1 ' 1 = 5=1' (55=' - ' ;7" 85; ;488'884' (2 ' 45<(42(?'75' '
?4<75; 7 1' (55=' ' 7 ' 87@ (' @(!' , !' 79 (' ' ' (!' ' 854;488' ' + # ' 9R ' . 4 " : '8 '(5='
=55(?A ' (55=' Z ' 4 ' = :' ' ' 9 ' . 49' (55=' Z ' 67=' 4" 8(; ;488' ' 9 " # ' '
B, C' 7?47 1' 375; ' 4 '22" <'2'7 1 ' 457 1 4 (" O':41'418' 455'78 ' (@7?'] ('(5!' !'';'5 1 ' @!' M !' s 5'5 58' 48 '
7?478' : =5';" '; = 7 1 '67" ':" 4 5(884' ?';' (' (55'8' 9" (:' (55=' Z !' 7?478' 45'1' %' <7' ' <'2'78' '2' ' ?4'
67=' 87@ (' (?' (55!' Z - ' 4 M , !) 1 ?4=' <'2'=' '2' ' G79 (' 455'7 1' O':4 5';7 1 ' 87; ;488' ' @=8 ' (55=8' . 4 5"
' = =5' <'2!' 5d?' ' '!' 4!' ((578' '" 3 =5';" '; = 7 1 ' (5!' ' 4 ' ?4'5?4' # 1 ' # ' ;7" 854;488' ' @=8 '
(55=8' . 4 5" ' '!' ' ' #6 \' (5!' 9!

q ' .] ' '] ' 0 . !

B, , C' 7=' <4 4' # ' (1 :=' . 4 48' =55(;'A ' 541@4' 5? 4; 58' <'2'78' =5;3(?' ' 4 ' 5? 4; 78' <'2'78' 7 4&'
?(') '= ' = :' ' ' G79 (' %' (!' (55!' Z ' @=8 4 '= ' (55=' Z M!' '= ' ?4' 67=' 87@ (' '5' 49 7 ' w (' ?4'] 45 4'
'(;3 '(" 67A' = ' '541' (9' ' (' . # ' <'2'=' =;3BI?''& (' :14?=5'' ' . X '8' =55(;'A ' 4 ' @=8 4(' O':41 'A

AAB " ' !

! !

?<8D)$ D)2 8' $ ' I ' 8 8 #2' #22 ' 828EF #' 8X' J 8 82#8' G #' 8 ' / 8+0'
_' #2#' 1;28 H' m ' 8 8 #2' #U#<U 8' G' G 2F-' 1#2#F-' G-#G#' 8X' 2#8 82 8' 0'
' !' # 8 ' <<' A2#<K1< J ' 22#' 8 ' 22F-' < +IF-' 8X' J2#8 82a'
?! " !' ?Y+# # 2#8NH' +# #2' # #<' + +8#' JJ#E8+F '8F @ E8 F-' <#-0'
8') 8< F< ' q< ' 0< <' 2 # H ' hF 8 ' J <F-' +E-+ H8 -#-' SF#8I# ' X8+J# F-'
K ' ' ! G 2#0 8 G +' 1#2##' / 8+GF-##0 / '
EFJ F-' J + ' G8 #8 -8- @ &F JH EF-'
$+# J#< F ' 2 8' 8 F# ' ,A '

wC+' J&!' / 0 0 ' ;f!' < J 8' ' ' 9 2 ' FJHF + F-' 8X' $#J +F ' 2#E#-8

= '78 ' 7 " 87@ (' @(!' Z ' 4 ' @!' M ' 5!' -!' 0 (: ''' ' '8' -' <'2'=8 ' 67= 7 1' ' 49' @ ' 1 (' 79= 4' + -# ' 4 ' 67'5 7 1' '(22 7 1' (57 1' 49' ('75(' (9=''';(!' ' 67(7= ' <74 4' #5 ' 4 ' . # ' #4 71' =57(;'A' 8(= 48 ' 7 ' 87@ (' @(!' M ' 5!' Z ' 4 ' @(!' ' 5= !', !) . 4 '=' =55(;'A' 6''(1' 7 " @ =@ '(1' 4 ' 67(8" 1458(24 1' 8':" '5?'&' ;(4 55 ' @=8 4 " '(5' ' =;(:('' ' < ' # ' 4 ' ' 0" '5'5 ' . 4 '=' <(1 '2'A' '(;3 '2' =;(:7 7 ' < @. # ' 3=?'4' ;= 7@ 4' #@ #

4' <(1 '2'(' '8 (' = 78' 4 ('2'54(' 4; (' # ' ?4!' 67=' 87@ (' '5' 49 5!' 4' 4(?4 1' 4 (' ! =2 1 (578' 7(4<(" <'2'58 ' 72 =' ?'; 78' + @ ' 67" ' (1' ! 4 1' ' (1' ?79' ' 8A;72=' '2' '5' 1 (5=' 8(' 7' ?4' =' ;(57 ' -' 1'22'(': 8' ?'8 (5 4' (' # 8' 55'1 45 ='] 7('" . 4 '8' =55(;'A ' 4 ' ;;248'(1' ?4' # '22& 1 (;& 7(;3' A?' '; (') (' (;' 7(;3'] 7('u' 8(5 7'54' @ =@'56758)] 7('58' 45'1' <'2'58' 4 (' =2 1 (5" <'2!' =: 3(;' ' <'2!'] =:5'5'' ' < !' =5(2)' ' =2 1 (578' (7 4 1' <'''78' 4 (' 7(;3" <'2!' 5 1 ' 4' ' <'2!' 4G78?4 1' =7('2' ' 7 ' '5' ((2= =' . 4 71' =55(;'A' '5' !' !' @(!', Z' ' (' 7 ' :';' ':78 '] 7('58' 4 =' ' (?':78' (:' 4=?4 1' 8 '@' 4' ?'8 (4'!' !' =2 1 (5"] 454(2= '(1' 8';' 493':4 ' 45=2= '51' 78' '5' ; !' !' @!',) [[!' =2 1 (5' <'2!' CV=;\'' ' <'2!' 5 1 ' 4' ' <'2!' =57''' ' <'2!' = (5Y' K' <'2!' ' # ' <'2!' ' <'2!' . # ' <'2!' ' + - B' (?4 1' 3(:4 ' ':4 ' 4;(5' '5' !' !' ':'?!' %'?4' '5< (' (?' (55!' Z !

0 (:5' ' . # ' ?7=8' <'2'=8 ' ' = '58' 0 ':4 5'A ' 4 ' ! - ' = '58' =55(;'A' . 4 48) 7;;488' ' (3'A' <'2'58' 4G78' ! ' . 49' = '58' 0 ':4 5'A' 4' . 4 4' =55(;'A' <(4 58 ' 7 " 4 ' (:'(8' '@84) =55(;'A' . 4 48' 49' 4(?4 1' <(1 '2'(' = ' ' <74 4)) ,!' ! -) !' ! ' + ' O ' - # ' ! ' @ A?'; " 49' 4(22(;3=' <'2'=' 4@=8!) -!' ! ' $7 ' <'2'78' = (5'" 42!) !' ' =: ''(;3" <'2'78!) Z!'] 7('=8' 4G78?4 1' =2 1 (5" <'2'78!) !' 7 ' (=2?7:'" <'2'78!) M ' . #- ' (2" <'2'78!) !' # ' =5543(?" <'2'78!)& !' =55&' ;3(3('58!) ,!' 2(3 ='78' =1 35(2?" <'2'78) !' 2(3 ='58' ''!' =5<4 ' 5= !' (?' (55!' Z ' '5< (!

B, C' 79 (' 2p=8' 55(248 ' =5('578 ' 8' 4' =5 1 (2'78 ' (2:4" <'2'78 ' ?(5'5(5" 87;;488= ' 4 ' ::(8' ' 0Y458'8 ' =:'' ' (55=' Z !' (674' (:?';(884' '?4 7 ' (5 4' (55!' Z Z ' 67=' 55; ((?' '5;'@(7 1' 0''4584 1' =: '57&' '884' ?';' 7 ' '5' 49 7!) =54:(?7 1' ?4;'1 7 1' <7'884' ::(4 1' 4 ' 49'884' (:' (55=' Z ' (?' Z Z ' 8; ':' ' '884 ' @(!' Z , ' =1 ' 458' ?7=8' ::(48' 67=8' X57 1 X (5 ' %' ('8 ') 79 (' 3=8 ' =5 1 (2'= ' ?4;'1=' ::('U' 87;;488'<' 5=5' =5;3' (?78' <'2'78' 45<(42(?'' ' (55'8' '' ' <' ' 8; ':' ' '884 ' @(!Z , ' 84?' !' = :45478 ' '?674' (:' (55=' Z ' (?' Z ' 4 ' ?4'5' !' . ' = :45" <'2'78 ' S' @=8 ' 47 1' ' 45<(42(?'" <'2'78 ' 67" =:'' ' (55=' Z Z' # ' ' 7 ' '5< (' (?' (55Y 1' '8 7 1 !' =5<4 ' (55=8' Z ' Z ' Z - ' Z ' 4 ' Z Z!

'5;'@(7 1' 0''4584 1' 65 ?' ('54 ' ::(48' (2'67(5?=' '5;'@48' (@@422(=8' <7'884 ' '5?';(" (:'22=5'78 ' '5' '@2=1 (';(' @(!' ' @ A84 '1' (@7?' 0 ':4 1 =8 ' 7 ' @(4 ' 49' =224; '=54' (5=57 1' (@5?' (;34 '7 1 ' @';'24 !' =1 !' M ' @(' ,-) -!' # % ' =5(8 4 '=1 1' (@@422(5 7 ' (:' 8'48'=' '5' =5;= ?'(' . 4 72(7 1 ' @(!' Z' Z ' 4 ' '5' ?'; (' ;=224; '=54' ;(5=57 1' 0 ':4 5458'7 1' I ;34 '' ' !' M ' @!2, ' ;!' ' t ;!

A 4 4(' 4?('5((=' 4:' 7' !' =27 1 : X' 4 ' 84@72 7 (' 4G78' B !' ' ;!' !C' '5' 5872(' < ' (55=' A ('8' ZZ ' @=8 ' (55=8' ;' ;' 4 ' 999'" 49' 67=' '@84' ' (5'(1' @ A?'; (7 78' (?'' ' 87:G75 ') K' 4;4 (' (7 4 1' @ '7867(1' ' (5'(1' 45' 4 ' =5(8 4 '7 1' 5=:'24' '5' 0 ':4 5'(' 67=? ' (' ;=@'(' =:= 7 1 ' # ' 2'5 7(' ;= = 75' ' 3=;' 48 ' ;(1 @78' . P:= 5 1 ' ;= 5=1 '5(7 ' 49' 67=' 5 =674' =5(8 4 '=' @27 '1 (' 49'5?4' =5(8 4 '(' @4 ' '8;'@72=8' 4G78 ' 4 ' '5' ' (55'(' 4 ' '5' 0 ':4 5'(' @ =@(((' 875 ' '5' 67':58' =1 5':78' '?4 1' =5(8 4 '7 1' 5872(55 1 ' '5' 67=' '@84' 467'48;' ' ;= @= 4 ' # % ' 454 !Q' %'?4' '5< (' (55!' Z !' =5<4 ' ' 4 5(;37 1' 87@ (' @(!' ZZ ' (55!' , ' ?4' # @' % ' =1 (" 454:= 458'8!

! !

F# ' 2D)' ?< #hJH # ' H# _
8' ' ' !" ' m#'
D)8' U F#J # F' ,1Y
9 2' D)JH ' ' ' 2# ' !E # !'
!' 28J 2 D)#I# #J D)JH' FD)22 # H _'
F H# 9) a0 D)JH >8 D)' # R< 16)#4D)JHD)# H
7 0 $!' KD) 8' 82#' ##92#) '
?<#D)JH<D2' _' q<9) ' _' 2F#n## ' !' 8 , F
82#' _' ' h ' ' #)#<<<8' 8' :JF2F# '
E # !' A@ 4 ; D)82 8<J # <<' #228 D)<D)'
" !' K ' ?!' ' D*JDDJH !' " '
" ' !' ! !

9 ' D)82 8' , Y' ?22 ' 8D)' !'
/ ' #22# D)##D)0) # D)2 D)0
D)#< 8' 0<8< D) , ' ' @'
; ' + ' ' % , ' ' I#
!' 7 # ' ' ' ' !

9 2' Y' 0)#2 #8' !' A' D) H #8# 8'
0m<FD)#JH 2D)' FD)' <8 JHE ' <' H' U ;28# H' #q
2 # $ H' ' !' _' F<D## ' 2FJD)# H
! !' ?)8< D)2 " ' !' + # '
K ' ' ' _D) D) ' ' + '
,') D) 8 8' h828< #JH' '
' E !' 8+ #<D)82D) ' ?#2 ' qm< D)#<
!' A' / # ' 8 ' ' D) 0

JJ#-F-' F' /# JH #' ' ' 8' J,U#0
-F-' 8-' #<-8' # #' /# JH+ F-' 1#2#F-' &F G 2#
- ' I F2 8+ F-' ' $#J #-
9 ' $+ 82#F ' E 2 ' G8- F ' # ' J < ' # _ L'
F #U##GF2 # -F ' 8 Hc +F-' 1#2#F-' JH#'
F 22 G#F-' 8' FE# -JF-@ $+ 82#F ' ! 8G0'
- 8 # ' 2# # # F-' G8 #4' # ' SF ' J8J#E8+F '
EF ' 1#2## 8 22 JH# F 22 8 -#-' /# JH+ '
8' / # E ' 8' +#J -' G8- ' +# 8-'
8X8+J# F-' 8 22 J # ^ 8' < -' < F2F2F '
+ +8F-' 1#2#F-' JF2# # UFGF2 F-' 8- '
82E 8+J ' <-' 9#2E +8 -#-' ## @'
$8- #-' SF ' E#J# F+' K J J`#' JF ' I8 +#-'
<+ 12F I# ' # ' # 8+ #
9 2' 82' 1#2#F-' / 2 8#)' -' ##8 0' _ '
-#-' ## ',ABY' F- # ' 9#2E +# 8) 0'
G 2F-' # E G +' 1#2#F-' / 8+GF-## -F # 8'
+ 8' # ' + 8 -8' - 8+# ' SF#8I# @'
F- # # F-' ! +E ' JF ' # 8+# ' +TG I#'
#-' I#' / 8+G 2F-' 1#2#F-' 828EF # +8G +8'
J#<# ' +8X' # 8 # 8
9 2' 8< -' / #2 8# # FF-' 8- ' $+ 8
2#F ' #-' / F H' G8- F ' ' 8< 8' +# 0'
H # 8G8' 8# H +F ' # 8' G-#G# '
F # J8J#E#' 8' F+ #F-' 1#2#F-' &2F G#'
J8J#E#' / 8+G 2F-' 8X' # 8 # 8' I#J
+' 1F# @@! + G8-' $#J +F ' # ' < '
' ' ! X #-' F # / # G 8F-' 1#2#F-'
&82 + H#' # F+' + 8' U JF#' 8 7'
1 82 EH' -' / H +8F-#-' + FF-' 8-

B<C' 3 =5!' ;= ' (?' 'R541' 37G78' (55" 3(:4' K' |=' (5 = ' !' 1!' '7;45?' Q' '!4!' = '5(' 1= (2' (8' ' 4 51'
(;;458(' 48 !
B C' [[' + - ' ' @4 ' ?=271Q' '5' 3 =5!' ;= !
B C' K' =51(42' 14' (42:4' :!' 2(4!F' :'?!

B, C' 0'4' 48' @ =;52' ?7:'=' ' ::(8' 0''458'8' ?(15(5" 87;;488= '?4' 67=' 87@ (' (?' (55=8' Z '4 'Z Z!

<##) 9)' < <' ?2 #< 8J2D#J' ' 8 ' G'
" A!' #-' 7 !2#' A!#m
_ A' 9 2' 8 8' !' 28D)' !' D)JH '
' ' A28\D)' ?2'#p# 8' !' ?!' _ D## 8'
8') 8#22' 8' 8< #)# H' JD)#2 E # !' f@'
h' 8' ?A28h2#D)' 8' h2FJH # H' " '
!' 2 #JH' !' ! ' ' hF JDDJ2#' 8'
2Y8#88' Y #<J# ' !' 8' ?m<8<D) 0'
2F)# H' 8' I_ D)828 F#' ' ' # '
@ 8 D)#<8`7 #8+ # @ FJ8<8D)' U##' << # H8'
' A' D)+' !' # ' ' '
' <D)' ' I;2D)#28 F#' _' ' f' G'
! !' hF F #28' A2 ' . # D)' 2 8 D)'
K2FJHD)JH' 8' Q<# 8 822 # ' # ' @'
JH' #< <8< HD)# H' ' ' <0'
D)8' 8' 1;2D)8 D)#' I ' ;2F HD) C 2 < ' 8#<'
JFD)# 8' + # !V & ' ' ' '+ '
' # ' ! !' ' E' 8# H

_ ' 9 2' YD)8 D)#' $4' < < #' !'
?)#)#2 8' !' ' <D# '
h#JF ' A2 ' 2F +F)0 80 #<' !' 7 '
* ' ' ' ' & ' !' # D)8 H'
8' h88<#2#' _' ' I_ D)J 8<#p # E # !' ! !'
h < 8 ' / ' D)8' ' _' "'
U' ' ' K ' "!' J !'
"!' ' +D, ' !' < D)8' 8'
m ' 1 2F H9 ' ' 'E # !' f' 2 <- J

G<'8--#' +# F ' 8 ' & 2+# E8 -#F '
<FE' +G882 ' 2# #' +# 8-' E8 I#J #
9 2' 8 E8F-' <-' ##8 -#-' +# F+@ '
$+ 82#F ' # 8+' EF -' 8< 8-' 8E#' ! 2 0'
8 -#-' # ' SF ' # 8F-' 1#2#F-' # 22#' 1#2##
8+ G#0 ! #2' UFGF2 F-' 8- ' / 2 F-'
1#2#F-' 8EH#' 1#2##' &2F G#' I#J +' 1F# @'
2#E##' <+ - + #' 1F8+8'^' F #' &F JHF-'
1#2#F-' 8JJ#0 +JH8#' JJF F#' ' &F ' 1#2##
/ 8+8E G#' 1#2##' 828EF #' # ' J 8E8' G8 8+#-'
G +##' <8+#8+F @ FJ8+J ' 8X' -- 0'
+#4' + FF-' 8- ' $+42#F ' <FE' G8 #
8 -8-' E8X 8+-8' +#-' F #' + ' 8< -'
828EF #' 8 ' 1#2##' 8UF-' J8J#E8+F ' &F 0'
GF 28F-' -' 28 E 2 JH8 -#-' <8+## @'
&2F JHF-' 1#2#F-' / #EHJ#22 G#' #G 8' F- F-'
$+ 82#F ' + 18+ E G#8 -8' F #' J8J#E#'
+ JF-' 1#2#F-' 8 G#' 8X' # 8'
JJ#-F-' ' & 8-##-' +8 2# F- @ 'H J' '
18J#' ! 8E ' 2# +F ' G F ' #E' 8- ' # 2# '
8E4 ',A.Y
9 2' 8E F-' <#-J <F-' -F2 8' ; JJ 8'
2 4' ## ' / 2 8F-' <#J <F-' " 28 G#0'
+F ' # ' + # ' + FF-' 8- @ &#JF '
-' F 40 J0 #-' ## ' / #2# ' - ##'
' - 8+# ' #2E -' ## ' # 8 HF-'
, 9 8 8 HY' 1#2#F-' &8+#22#' 8 ' 1#2#F-' HG8+0'
#' UFGF2 #' -F @0& + 8 #F-' H8E+ '
##8 -8 ' # F# ' 8 ' I' 8 -# ' <8+ J #-' # '
$+# # ' I ' 9 2' I ' E#8' ! #' ##

B,-C' = (5" ':2'(1' @ =@ '(' 1(57' 4?(5" 49((884'57867(1' 24 ' 5 ' 65=?' 8;'(1!' ; '@8'' ?4'] (1 1 (';('
'3 (4 ';('] 4=1 4 '(' 8 =5=1'(' 3 =5=2= '(' 78';('0'8 = '(1] 45 '8 5 2=1 1 ' '(8' (5; = 51 ' (L&'
=2= '71 '4' =1 145 ('('5'2': =8' '4 '5!' 48 (1 45 '' 4?' (' =; =' =1'8' '5' <=2'=!' = '88'1(' 4?' '=' 48 ' =2=5'&'
458'8' (55" !) 5' =?';4' @ 48 (5 '88'1 =' = =5'(5=' 3 =5';" ('(5'' 85@ (1 4 1 = (=' (?' (55!' ,!' H8J'
24 75 5 '(?' (55=8' Z Z' 4 'Z,-OA' 5;;9 '" (2 " 5 2= (5" ?4' ' (55'(' . =1(1' 454 55 ' '5 4 '675=8' 4 '(1'
K' . 4 4 45?'88'1 58' : : (8' 1458' 4=2< '?78'(55=8' 5(78' 99' ';71'4884' 48 : L 4 '(55'8'92 ''' ' : : (8' (7 4 1' (55'8'
K' %' :" '5 =5('@4 45''=:'' '4 ' '5' ;;248'(' 41'5=5'1' (2L1 1' 84@7 58' 48 !' s7" '5 4 '(2'('?=5(2('
1'8'' ;;248'4' !' 4 " 'B'!'4!' ':2'(1C' (' :4(=' 0'4 =5L1=' '5' ('571 '49' 0 4 : 4=' 42'] 4;=' <=5 4'
K' (582((1!' 5;;99 !' 0=;' (55=' 4?(' ;=1@7 (= '(55= 71 ' =1@7 " ': 71';=1@=87' !' @8=' ' (' 48 4!Q

1 #+ # ' W# ' !' !' ' ' B)8E#0'
JD)' # !' 882# F1D)# 2#m 8X' H' I;2D)# #8
!

9 2' D)E# # 8 8J;# ' ' #+# #E#8'
#J' 2Y#28' J8 H' # ' ' 1##D# 1;2FU JH U;2#hH#
' ?<#D) ' # 8' ?A28##HDD' # 8' 2FJHD)# H' _'
F NF#' H' 8#JJ8' ! !' ' '
' 2Y#28' _' ' _' c28 ' J2FD)4'
D)JH 1# 9JD)' ' ' # '
, ' ! ' ! !@ hF 22' ' !'
82 D)J' E#28 ' E 8' !' < F0'
D)J' ' 8< D)# H' ' # ' '
' 8 !' U'J <#) H .D)<ID)2J ,)'
W)# F # !' S !' < F #)JH' ' 0'
D)#28' !' ' UI2#h8' ' !' ''
;2# #' ' ' w' , ' ! !' + '
!' J' 8J' E' 8' J8' #<J 8'
_' 12 # ' <T D)#2' # ' ' J ' !' Q
" ' ' ! ' 8JJ#' & ' ' '
! ' ! # ' !' ' ' !' ' '
J2 #< 8D)JH' !' ! ' ' ' ' 2 JH' 2F#JJ'
' !' $ ' !V # '
) X' 2FJ# 9' # ' c2FJF# ' ' ' !' % '
!' _ ' ' !' _ B)

9 2' 82#' #F ' I2 ' 2 # 8' !' !'
#! ' ! ! !' # ' 8 2,)' ' ? 2#<h F)J29)'
822# 8' ?!2 ' 8< E' ' ')F '
1`F<JD# HD)' 8' h#DDY D)JD)' JD)#J' I#' '
B I8#22' 2D)' D)22' ' -<# 8' H' 8<+#D)# H'
_28h' F' I ' oD)' ?m<# 8 J8' #J)#J ' 8'
2 D#' ' w' Y ~' F8< 8

+ JF-' 1#2# -' 2#2E#' 8X' # 8' # '
822 ' UFGF2 F-' 8- ' 2 +GF-' 1#2' &+ - #'
2#G F+' ' 1+F#+8' -F ' 8J 0)!8JH F- 0'
G#F-' 8X' #' #-8' +# F+
9 2' $+ -2#F ' + X' # ' J < ' !# G# H8' _ B'
<FE' I8 8+8 #' + +8 ' 1F2 # 8' J F- F '
' -- 2# ' JF ' +JH E ' #E8 -8' F #'
/2 F-' 1#2#F-' 8EH#' 1#2##' &2F G#' 8'
&F EF# F-' ' 8#J8' J8J#E8+F ' # ' 2 8+ '
J G+8--# 8' #28F-' 8' 2G F-' 8'
8EHF-0J2F - JH' ,1#2 Y' &# + ##' # ' <+# '
J G+8--# 8' 822#' # 8+18J #' -F ' &F0'
22 ' J - +F# F+' ' !82 J ',AKY' -)'
8+#F ' -F2-8' ;#+G# F ' J - +F# F+ @ '
/ + F- JHF-' 8< -' 8+ G#' E8' +8G '
8X<F2- -' # ' +# # @^! + G8-' 1 8E ' # '
#E# ' # ' SF ' J8J#E#' / + F- JHF-' 8< -'
G 2##' J 8-F-' ' #E8 -# F-' 8X' / 2G 0'
+F ' #E8 -#F F ' E#8' 8' 82# ' <+ E#J '
J8J @!#JJ# -' G @ $+ 82#F ' # 8+' EF -'
1#2# -' 8JJc' +JH##' 8 ' 1#2#F ' +8- 22#' 8G8 '
8< F ' JH E##' # ' SF ' I#J +8-' 8+ '
1#22#' 8JJ# @ ' H J' ' # 18+18J #' -F '
<8+8G+# #' <FE' #8 -8-' ^ #E' 8- ' J2 F0'
EF-' JF ' #' 1 #2# ' -F ' X' 2FJ#E '
' F F
9 2' 8 22 JHF-' F 2 8 -#-' 8X' G80' _ .'
8' 8+# +' I82' UFX ' SF -E ' ' ,A_Y'
/2 F-' /8 2' -' +E JH F-@'
822# 8F-' <-' -' /8 8 -#-' + #'
-FF 0+ 8E8-' F+8E JH#' 1#2##' &# + # ##' JJ8J#
8G*-' ' c 22 +F ' <8+' 22F ' " + '
,#' 8' H#2 +8 Y' ' 8+ #G' 8EHF-' #G8+

B, C' s54 4' 7 7'5' 3(4;' 9' 8' ' 6" '5' =(1'(-' 5=5' 2=5 4' (' ` &NN - ' ?4' 67(' '?4' 455(5 ' =7' '5'
;= 2(5?!) 4' " ' (2"8654' .4 ':78' 0':4 5';'8' (2 '(?n' 2:(5';(8' '?4' .4 !' 0':4 5';(!' =2!2' =24 =1!'
@(!' ;99 ""!
B,ZC' s784?(1' ?4855 ' 6584' 48 ' 54 4' 54674=!

AAC " ' !

5 6 ' I; F<JH '#F)' 8' 1#D)#
' #++?2?4' ?y2 ' 28D)

_ K' 9 ' .)4'Q' KG' RR' I<#+H' 8'? 22 0
) ##JH' 8< ' qp< <+ 8H' H ' 8<
! ' # !' K ' ' ' " '
!' ?) 828HF' 8' h #< 8 #' / G
0 ' / , ' & !' ' '
' "!' J !' + ' ' + , ' G'
!' * ' 82#') ') ' ? 2 ' 2FD) D)'
OD) I#<' ?m<#D) ' ?m< #< J8' 8' ?) D)<J # ' !'
') ? 2<J <J) ' 8' 1_ D)#28 F# ? 8<0'
8' 8' # <D)# ' , !

_ _' 9 2 ' 1JFc#JHD) H' 8' <E82D) ' M2# #' 28'
H, !' J 2 ' 8' F#2 ' , !'
2 ' 28' ' ' 8 '

8X' '/#G8 # +F ' /2 H # ' 1#2#F-' 20'
G #' - <#8 - ' 8 ' JJ E -' F8+ 8F-'
#8+F @ X8+J# F-' EFJ F-' ' F+JH E '
1#2# ' +# ' --82# ' & + 8 8F-' -'
##8 -#- ' ,ACY
JJ#-# ' 8G#-' ! X F ' #' 8 ' -+# H#'
1#2## 2E1+# H#' 8< #-' - ## ' ,ALY' / G +0'
GF-' ' 8+ #G' # 8+F ' +8G ' $ -JH '
' # ' #I# 8' J F F+' , Y' / 0'
82JHFF-' 1#2#F-' & + 8 ##' H8E+ ' 0'
2F -8' ' 8 #-' _B ' # ' #I ' 9 2 ' ! 8< '
E#8' ! #' -F-J8<# ' , Y' # F-' 82#0'
#G8+ G#' #-' 2F 80 J0 #-0) / 2 0'
F-' 1 + #-' 1#2#F-' / G + G#' + FF-' 8- '
F-' + + #' 1#2##' 828EF #' 8+ 0'
JF-' 1#2#F-' # + #' #
&F 8 EF-' 1#2#F-' 8 1 82 E##' -'
##8 -#-' # ' , AY' # 82 2EF-' 1#2#F-'
2 8 +' # @ X<F2-# ' ##8 -#F ' 9 #20

B, C' 4' O''458'51' ::(71' 85;;488'=5':''8' '?4' 87@ (' (?' (55=8' M, ' MZ' Z Z Z' 57?4' ;=58 (' = :4&' 5471' <7'884' ' 4'674' 87;;488'884' . ' ?7=?4;'1''1 ' 4 ' ?4'5?4' ' 455<(42(?'" '2''1' 9'''1!' 67" =:'' ' (55=' Z Z' 7 ' '5< (' (?' (5571' '8 71!' :'' ' ' (67¡' (5 4' 75;3(?71' = :45478 ' 4 '6''A?(1' 3';' 4@=545?(' 875 ' '5' 49 5 ' 7 ' @(4 ' 49' (55=' Z Z' '5< (' 7:" =5;3(?" =:' 71' ;=58' 5(71' 3(:4178!

B,MC' =5 457' ;71' 3 =5!' (9=5 ' (?' (55!' 475?41' Z)'K' 8 4?58' = :L1: = 71' . 49 ' '5 4 <4; 78' 48 'G79 (' K' <'548' 78 (248 ' 67" 4 571' 457' ' 9" (55'8' @=8 ' (2?<4 371!Q

B C' (' 4?(' !- ' ;!' , , ' 4 ' 3 =5!' (9=5 ' (?' (55!' 375;' Z ' @(!' - !

B C' 55?41' 5714 71' ::(71' O''458'51' 3(:45 ' 55(248' ' 4 5(;3' ' 2 =5'45848 ' 4 ' %' ('8 '' ''8?45'654' 5=1'5':78' 141= (=8 ' 84?' 5=5' 4=?41' = ?'54!' %884 '58' 54;' 5514 71' 84 (' 54;' = ?'541!' (8&' 4(571' 45'1' <4 ''('5' ::(41' =1' ' ' 7 '87@ (' 5= ('178' (?' (55!' M, !' 9' ?'; '8' 87@ (' (?' (55!' Z Z' . ' 87@ (' 141= (58' '5' 49 7 ' <7' ' ::(8' O''458'8' ' 75;3(?78' @ ='5?4' 9'''!

B ,C' '':' ' ::(4 ' O''45848' =5(;3=8' 41@78' (;3(24' . =1(551 ' 87(?45 4' 4 :4 = ' 48:L 4 =' (9=54 ' 858;4@'884 ' 5((' 4?(' !- ' ;!' , , ' (55=' (:' 5;(5('=54' Z ' '?654' "' / ' % 7$# ' ' $$ ' 7 ' :(:45 ' 3" 55(248 ' ' 4 (674' 2 =5'45848 ' '5' 65':78' @(' 4 !' (55=' @ =9'14' 846545 4 ' 4 ' 75;3(?" ::('8' =:' 71' 8' 5(71' '5 45'178 4 ' 49@5'8'=541' <(1'2'(N' ' '!4!' O''458'71' =5(;3= 7 (' # ' # ' # Z ' ' ' - ' <(; (1!) 4; (578' '224' '; = 71' . 49' <7' ' (' 67=' . =1(571' (8;3(' '5' 87:G4; (8' 8':" = '5;'(8' '5 =?7; 75" <7'884 ' 8; ':' ' 4?(' !-!

5' @ A8 (5 '88' 1 =' ;=?';4' = =5'(5=' ('(5" ;=2' ' ;7G58' 87@ (' 145 '=541' <4;'178 ' 3A;' 24 75 7 ' (?' (55!' Z -!' K' :4 78' ' ' 48' ?4' 45 4' 5 2= 71' 4 ' 8(;4 ?=8 ' =5(;2''(1' ?54458' ' (1 ' @4 4 '5 8 ' @'5 '1 (8' ;= ';A' A' 45 '8' = '5;'(8' (?' ;(5=5';(1' (8;3(2'8' 41@= '8' =:84 (5 '(1 ' (' 67(' ?'7 '78' (:4 (4 75 ' @'(' @ A?';(&' F' '=54' ;=5 4 ' ' (55=' (:' '5;(5('=54' 5'!'G79 (' '=5L8'71 ' ;;9 !Q) =42;37=541 ' 77;3(?" (5 4;488= 41 ' ::(41' O''45841' '58 ' 7 71' <7'884' (55=' Z ' ''' " # (2!' 4@ 41 :!' ?'4' (::(3' ' (55=' A ('8' 87A' 99' ' 8; ':55 ' %' (!' (?' (55' Z !' (?41' ''8?41' 4 :'8' 3(:45 ' 55(2!' 2 !' (?' (55!' Z - ' A A' !' Z ' ' 41674' ' 4 5(4:78 ' 7

" ' ! AAL

!

' # !' / # ') ' w'
8 2 ' ' ? ! " F ; 2# #I#<JJ' w'
8 ' " ' ! !' F F J' D)8 D)# '
D)#2 8 ' 2 ' DDUJD)JH ' ' U J'
J' hF# 28 8

9 2' I`2DD # F#J #' ' + ' !' '
2Y8JJ' 2Y #I#J #' Y !' D)JH 8 9 h D)' , '
7bU? ' 3!' *@ 42; 5 ' Z'
? 28h2F)' # 8' h2FJHD ; # s#' _' ? 2# #h' H'
DD# ' _' ?<8U# D)2 +' !' ! ' D)22
##D) J " ' !' D)22 <D) J '
8< D)# H' ' ' !' ' ' , k
' ' ' 2 ' qm<8D)<G 2 ,I& < D)
H' 2Y8JD)# ' A2 ' 2#< #<' !' ' % ' / k
' ! ' ' 28D)' `' ' ' " '
' ? ' ' - # @)Q<# D)# D)82
!x!' J7 D)# 8 # 8' ?m<# ' & ' K '
I_ F# H8' D) #' _' F F# ' H' ?<D)82D) # <'
M2 ' 2FD) ' 2<D)#<h' " <#' F8' D)#2
8# <D) ' D) _' ? 2#22' 8')# D#JHJD)' E # !
! ! V K ' << <<' # 82 ') <' J # ' # '
#JJ' << <1' D)< D##h1 ' < <' J D)# ' # #< ' << <

+ -E +1F +# # 8 ' 8J ' 8G8 , -Y'
G+8--# ' & 2+#8E# +F ' 8 ' +# F '
<FE' 2 <#E8 ' SF#' I J F+' ' " ' 8 ' +#
8-' E8 I#J #' -F @ 12#J F-' <FE' J 0'
I8 # 8 ' 2 # 8F-8U ' <8+' / G + GF '
F #' J8J#E# ' 1#2#F-' 82+F #' 1#2## &F -28 ##
/ #2#F-' F # #' 8X' ! X F ' + FF-' _ C
8- @ 8JJF-' +JH8F-' # ' $+-82#F '
9 8228 -8 ' F #' F H 2#F-' '/ 82J ' 8 '
" + G 2F-' 1#2#F-' 8E #' 1#2## &2F G# ' 8 '
2G E#F-' ' G ' 8 ' / 8+G 2F-' 1+ 8+'
8UF-' J8J#E8+F ' 22F-' 5 ' ,# ' 8 '
J F- Y' I#J +' 8+ ' 22F-' " + ' -
<#8 -' ' 8 G# +F ' # ' 1# 8' EF +F '
8 -#F ' < - ' 822F ' #- FE ' # 8+18J F-' 8- '
<8+' / 8+G 2F ' + F-' ' 8J '
-' #- +8 -#- ' + FF-' 8- ' -F+ '
J + ' -F<8+' ##8 -8-' JH -' # < 0'
-# ' , BY' #' -F ' I#+#' - <#8 8-' SF#
+ F#' -F ' H J' @ / # 2F- ' I 82'
G #FF-' 1#2#F-' / # #' $+# J8<-' -F2 8'
<#' ! ' 8 ' &F EF## F-' '/ 82 '
<#-J <F-' ? -' 2F #+ +E8 -#- @ 0

B C [[4 ' =5("] (5 ' Y -' '5' 4=?4 1' ?'4' @=8 ' :4225 1' '5 4 <4; 78' 48 ' '=' #- ' ' + 6b B' 3 =5!' ;= !

87@ (' '5' 49 5 ' 84?' ' ' / ' % ' B' !4!' ?'48' ,M' 7 !C' 5=5' '5;2?' ' (55=' Z ' '5' ?'41' (: : (' ' 84?' '5' ?'41' 4 ;78' ' '!' . 42'677 1' 48 ' =:' 884' (55=' Z ' A A !) 55; : (?5 1' 5=5' =:''884' (5 4' (55!' Z Z' ;=5 45'75 ' =1548' 451' 4?(' !- ' ;!' , ,!' K' 78;4@4 55 ' (7 4 1' 0''45848' =5(;3' ' ?=;45 4' 4 :4 = ' ' 78! ' 45?" (3= ;=8 ' 87:' A' : : (4' (54: (?= ' @=8 ' (55=8' ;' ;' 4 ' 999 ' 49' 67=' (?' @ A?'; ('=541' 45 '8' 5 2= 51' '?(751' 1 '84 (5' K' 5 '8 ' 4 1 !U' @(' , Z!' | ' 67'?4 (' !' '?(578' (?' 5 2=8' ;=5 4 45?=8' 1'8878' <7' ' 49' 0 '(5(' (55=' -' 79 (' 2= 45 '7 1 ' 4 ' 4?(1' '@87 1 ' ! ' ;!' Z , ' 4 ' , ' 4 ' '5' @' =1 4' (?' (55!' - !' 65" (55" ' 5(1 4 (" (:' (55=' -' 4; 4' 5=8' ;=5?7;75 ' (?' (55!' Z !' :' ' ' '?(578' (55=' 9 " @'8;=@(78' 87' ' @ '?'4' #(2!' 4@ ' 67=' ?'4' '5' '7 1' <7' ' !' ' ' 3 : 4 =' @ =@=8' " =5(;3(2'8 ' 87@4 ' '8'=54' 3(:' (' ?4' ! '?(5" =:' 7 ' 5 ' 5= d ' 49' 4?(' ?4' %' (' !' ' ' 3 : 4 ' ' ;!' ' 1' 3' (?' 4?!' ! ' ;!' ' @(!' !' 45'674' 75;3(?5 1' =42;37=5' ' ?7=?4;' 1=' : : (" 0 ''458' ' 85; ;488'884' 8 (7' 1 58 ' 4 ' (55=' Z Z' =:''884 ' 8' 4' =42;37=' =:'4 ' ' (5 4(' 8' 4' (5 7 1' 48' &' 5(4 ' ' 4 ' @=8 ' 75;3(?7 1' =:'4 ' ' 7 " 5((' ' 4 5(;358' (?' (55!' Z, !) = ' 45?(' 875 ' 4 =' G79 (' 3(5;' 5= (1 ' ?'; (' 87@ (' (?' (55!' -Z ' 5= ' !' - ' 45'1 ' %' 4 (' (' =271 : (' '5;278' 4' " $
B C' 7; = 7 1' 4' 67' :58' . 4 7 1' . '; = 7 1' 84 '48' ;=22' ' 7 ' (5 '67'88' 1 58' 48 ' ' 4 5(;358!' %'?4' 67A' ?4' . 4 ' :58' '8 '8' ?'; (' 875 ' 85@ (' (?' (55!' - -Z Z, Z ' ' M Z ' 4 ' '5< (' (55=8' Z, , ' 4 ' Z, !
B C' 4 1 @4' @ A?'; (5 4' :4 = ' 5 ' 87@ (' (?' (55!Z ' @(!, , ' 4 ' (?' (55wZ Z!' 2'58' 4 (' 4 :4 78' ?4' 67=' 87@ (' @(!' , Z ' 5= !' !

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1 2 ' ! ' ' # ' _' '

" , ' 0<1# #U#)JH J' ?m<8DD# 28

! ' F f

_ L 9 ' _2##v#I#8KD)J2#? J' D)#' H 2#' _' 1##J2F) '

+c#J' D##hH H' m ' ' 8' D)#1' h< # D) '

9#<E#D)# 2#8' ?! " !' ' _21 K <8JJD)# ' / G'

' !' # ' , ' ? 28hH' 8'

82#' !' ' D)E#' / <J)82#' D#JH' / 0'

2 8' #+J#<' D)' 8' /8D)<J2#D)#<' < 8E' #')'

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+ !' D)E#' ' ' _2#<K8D) #8 #

8J #<' hF JD) H' 8' 888' ' #d '

.D) <DDg ' _' 82 D)J' J' # ' 2 D < #' _' "'

!' ' ' + , ' !' !' * 2!' '

' ' ' ¡ ? ' / @ ' !

; # ' ' F# 8' ' ; !

+#F-' 1#2#F-' G 2#' <# #-' 2 G#' 8 ' 2#2E -'

1#2#F-' / # JH #' UFGF2 #' -F @ / # # ' <2F0'

; # ' 822#-' -F<+ ' H # ' < +I ' <2F0'

I# ' +G8 8 ' -F<+ ' H # ' GF '

8 ' <2F I# ' - GF# 8 ' -F<+ ' 1 -- '

G8 # +F ' 8 ' # E8' I J +' # 22F-'

<2F I# -F-' 1#2#F-' / 8+G 2#' , 8X' # 8+ #wY'

' F J' F-' 8- ' , . Y

9 2' +8E G#F-' 1#2#F-' H Ew#' 8 ' +#0'

JH ' 1#2#F-' H Ew#' 8X' G8 #-' -#w ' , #80'

+F Y' &+ - F-' & + H G#8 -#-' SF#T I #' # '

+E +8JJ @ $FG ' <FE' G8 #8 -8- ' '

F #' 8EHF-' 1#2#F-' 8 22 G#' J8J#E# ' # ' 8 '

$+w2#F ' / # E + JH8 -8 ' $+w2#F ' 2 w'

I 22#-' # 8+' EF -' 1#2# -' / 8+JH +#' 2 G#' # '

SF ' JH8 22F-' UFGF2 F-' 8- ' E#8' I ' 18+#w'

E ' ! 8< 8 ' , KY' $+w2#F ' +# # F '

+E 8 - # F ' # 8+' &F JH EF ' 1#2#F '

8JJ#' JF ' J2#8 82#-' " F+ #' 8 ' ! 82 J#'

J + ' G8 F-' + #' 8 ' I 8+-F ' 8- ' <+w0'

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FGF2 # ' 1 #2yw' ! F 8#' # ' +E JH

B -C' '5''2':58' =?' ''8' 4<4 (' 875 ' =1 5'(' <4 4' 3 =5'; (' 4 4 (' 54654' (:' 4= 7 1' <'?4' 1 '5'1 7 1' ?4 (375 !'
' ; (78'8' 5(7 (2': 78' 4 45'55 ' @27 (' (' 845877 1' ?4; 4@ '=54' (2'(!
B C' %'?4' . 4 7 1' O' : 4 5458'7 (' 2: (5<1' ((2= 7'5' '5' . 4 !' O ' : !' = 1 =' !' =24 = 1 !' @(!' ' @!' ; 99'' ' (?'
@!; 92!' . # # ' ?'; 78' 4; 4' , ?78 ' 4 5(' ' (55'8' 99' ' 4' <(1 '2'(' =(5" @ ' 1 78!' : '' ' (55=' Z ' 67=' 4"
87; ; 488' ' (55'8' ''' ' =; 3=?'58' '' ' 8' 4' ' <'2'78' = 1 (5 (' ' <' " =5(2?" (; 72(' ' (;' @ ='5?4'
4' ?= 1 =' 4 78'' !' O ''' ;' 85; ; 488' ' ! ` 7' <'2'78' 4 ; ('" 2=5 ' ' 4' ?= 1 =' =(5' ' ; 7" 87; ; 488' ' @=8 ' (557 1'
4 5" 757 1 ' < (4 ' 4G78' " ' (55'8' 99!' 4 ; (7 1 ' (5 4; 4884 4' -' . 4 48 ' = 1 548' 2'54(' 4; (' 4' ?= 1 =' 4 78'' '
= 1 548' 1 4 1 = (" (' ' 4 5(; 3=!) 4 ; (78' ' (674 ' 1 78' 4' ?= 1 =' =(5' ' 4 (' 7 ' . 49' (2<'(? 1' & : (5'; z4' 4 '
5872(7 1 ' 4'674' 87; ; 488' ' ' ' 8' 4' ; 3('78' , ?78 ' =5(2?" 1 '!' 49' <'2'=' = 1 (5 (=' 54@=8 ' ; 7"
87; ; 488' ' ! $ ' ' . # #' (55=' Z !' 4' 3'8' ' ; '(; 358' (?' (55!' Z M' '565') K' '5 22554' (42'7 1'
A' (? 4 8=8' ? '=8' <'2'=8' 4 ; ("2=5 ' ' B'!\4!' , ?'!C!'5' 67=' !!'5'; 422(; < 78' G7 =2(78' 48 ' ?'4' ' <4 '^' (5 4' ?78' 4@ !Q
5: ; 422(; 3=' =!' 87; ; 488' ' " $ ' 2 578 ' 4 ; (" <'2'78 ' 4=?4 1 674' (55=' 48 7 1' 48 ' @ (42'7 1' 1 (' ' 1 7 1'
'5 4 ' ''5; 3(?7 1' @(7 1' ; 7 1' 45 4'] (7 (5' ' 4 ' 42 (; 37 1 ' 67'5 =' =5(8' ; = : !' ?'4' 'J' <4 R ^ !' 42 (; 78'
24 '; (7 1' '5 48878' 48 ' G79 (' %' (!' (?' (55!' Z M!) =5 45' ' ; 7 1' ' 4 5(; 3=' 2(34 478 ' 1 :=' (545' ?'8&'
845 '75 ' (' 7 1 '54' 4 4 4' O ' : 4 5'; = ' ; (5 (=' '5' 5(7 7 ('=54' (2; =2 1" ''' ' 67(4578' (1 45' @=5' ' 75 (Y7 1'
<'2'7 1' 42 (; " @=8 ' 5: ; 4(22(; 37 1 ' y ' 2@'57 1' @=8 ' 55 h25 1 ' 4 ' 7 4?(; 37 1' ' 54(; 3' @=8 ' 2@'57 1 ' 7 ' '5'
5= (' ('5(24' !' 1 (57' " 1 4' ' '5' 94 1 @2(H' =V4584' 2(34 4' ' @(!' ZM!' ' ' 4 5(; 3=' (545' ?'8; 4S
?4 4' 5=5' (7?4=!) 42 (; 2'=' ' (674' . 4 " M' 87; ; 488' ' ' ' '8' 4' ; 3('78' '78 ' (2 '(?^' 2: (5'4^'
. 49' , 1 =8!' ; 3('" , ?'!' <'2'78 ' ; 7G78' = : ' 7 1' 4<4 ' ' 4 5(; 378' (?' (5=!' Z !

U ˢ # !ˢ"!ˢ" Uˢ ˢ ˢ

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9 2ˢ S ˢ " !ˢ) 9)J ˢ #1#

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* , !V % ˢ ˢ ˢ !

9 2ˢ #?F J29)) 1# 8JJˢ m #ˢ #\{#<#ˢ !ˢ fˢ
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ˢ 8ˢ " J # ˢ ,)Yˢ U ˢ
1;2D)# #ˢ ˢ D)J D)2ˢ 8?ˢ ?)# #ˢ D)# 8ˢ _ˢ ˢ
2`F<J Jˢ < ˢ ' ˢ #9) F)ˢ
J<8D)ˢ <8 ˢ ˢ_ˢ D)## ˢ B ˢ < F)ˢ_ˢ
+F)# ˢ#9) 9D22 D)<ˢ ˢ 2 ˢ ?<8< E 2ˢ 8ˢ
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9 2ˢ l_) 82<F D)ˢ # ˢ 2<8<J< D) ˢ ˢ
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9 2ˢ &F JH EF-ˢ < +IF-ˢ 8Xˢ 8< #+#-8ˢ _A
+ FF-ˢ 8- ˢ $+-82#F ˢ # 8+ˢ JH 0ˢ
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2 G#ˢ ; - # ˢ J <#ˢ, _Yˢ <8+ˢ 0ˢ
H 2EF ˢ1#2#F ˢ / # G # #ˢ8 ˢ<81ˢ F+JH EF ˢ
1#2#F ˢ + ## @ +-ˢ F #ˢ -J+88 -#-ˢ
; - # ˢ G8 #a ˢ8 ˢ8X J #Sˢ +# F #ˢ F+ ˢ
8 ˢ 8X J # ˢ -#EF ˢ G8 # 8ˢ <8+ˢ / 8+G 0ˢ
2F ˢ1#2#F ˢ 828EF #ˢ 8-J JF-ˢ 82#
G# -F-ˢ 8G8 ˢ JF ˢ < J8ˢ H+#- #ˢ -F<+ ˢ
-F2 ˢ # 8+ #aˢ J - # F# ˢ #Eˢ 8- ˢ # ˢ
J < ˢ & 828
9 2ˢ 82+F ˢ # ˢ 8+J+ -- ˢ ˢ _AA
8 #-ˢ-Faˢ C ˢ 8 ˢ +# F-ˢ 8 -ˢ8 ˢ Lˢ E#8 ˢ
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2<# #ˢ 8Xˢ 2J2F#Ea ˢ +#F F+ ˢ, CYˢ / 8+0ˢ
E J+# JHF-ˢ 1#2#F-ˢ G 2#ˢ # ˢ F F-ˢ
#22E82G8 -#-ˢ 8 ˢ &8+#+#F !ˢ & H# #-8 -#-ˢ
8< -ˢ 22a#ˢ " F ?ˢ &+ 0JF#2# 8F-#-ˢ
9 #22# 8F-ˢ JF-ˢ " +8Jˢ +#F F+ˢ / 8EH2#0ˢ
#E#F-ˢ $+# J#< F ˢ # aˢ 8 8 ˢ , LY

B Cˢ Aˢ ˢ - ˢ 4ˢˢ -/ Bˢ : =5!ˢ ;= ! BrCˢ Kˢ 5ˢ 148;7 3ˢ. 42ˢ '=78!Qˢ ':!

B ZCˢ '!ˢ4!ˢ (1@Rˢ # - ˢ'5ˢ '?'(ˢ67'ˢ;71ˢ (1@78ˢ8(;4ˢ4884 ˢ4ˢ # ˢ .4 71ˢ = '78ˢ 0':4 5'(4ˢ84?41ˢ @ (4;'@7(1ˢG(; ' (4 ˢ'?4=ˢ(5 (5=1 (8 ';4ˢ % ˢ(@@422'U 7 ˢ67(8ˢˢ@4ˢ49;42245 '(1!

B Cˢ 2'58ˢ4 (ˢ < ˢ?4ˢ 67=ˢ (55= ('178ˢ 87@ (ˢ (?ˢ (55! -Z ˢ , ˢ ˢ M !ˢ 57=8ˢ99ˢ 4ˢˢ ':7'ˢ 4 8'=ˢ 0':4 5';(ˢ 455''ˢ4'674ˢ87;;488'884ˢ('ˢ # ˢ<'2'71ˢ 5<'?'ˢ (55'8ˢ 67(5= ˢ@=8 4(ˢ # 1 ˢ<'2'71ˢ 4 '22'ˢ (55'8ˢ ?5=:78ˢ ˢ<'2'71ˢ 4 '22'ˢ!(55'8ˢ9) 4 ˢ @=8ˢ 4; (551ˢ '1 14?'(4ˢ@=5'ˢ # ˢ 1ˢ ! % ˢ 67ˢˢ;=5 4 5(75ˢ(55'8ˢj O 6 ˢ 2@'5ˢˢ<'2'71ˢ (ˢ ' 4 5(;:=ˢ87@ (ˢ141@ (71ˢ=1' '!ˢ .4Uˢ4 '1ˢ4 (ˢ5=5ˢ '; = 71 ˢ84?ˢ 2;27'?'84ˢ4=ˢ(4 =ˢ ;'8ˢ '=571ˢ175' '88'184!ˢ %'?4ˢ'5< (ˢ(55!ˢZ, !

B MCˢ%'?4ˢ614ˢ?4ˢ ::(71ˢ0''458'71ˢ85;;488'=5':78ˢ87@ (ˢ(57= ('178ˢ(?ˢ(55=8ˢ M ˢZ Zˢ4 ˢZ Zˢ49ˢ65':78ˢ @(4 ˢ%4?32'1'?'71ˢ<7'884ˢ9 1!ˢ(ˢ =271:(ˢ'5;278' 4ˢ87;;488'ˢ45'1ˢ '2'45=ˢ9' =ˢ ::('ˢ'1 14?'(=ˢ87;;488= ˢˢ 75;3(?'ˢ674 5ˢ %ˢ ('8 ˢˢ=:''884ˢ('75ˢ(55=ˢZ,-ˢ ' 4 5(;2'78ˢ(7 41ˢ(55=ˢZ, ,!

(' 2Y<F)# ' m2#' 2 # s ' _' ?m<8< DD)2 -' F# ' I ' <' ' & ') ,!' ' " !~ ' ~ !' ' !' U' # ' #X ' B'JC ' ! ' # ' # ' F# ' ?!' ' ' ! !@' ?m 8 < 2' 8' I ; D)828 F# ' $)' 1#' !' ' + , ' !' JF<' ?m< < F D)JH ` !' 80' 8 #2' Y 2# # #8' _' +F)22' 8 ' $# H' 8 *' #<<<8' _' ?m<8< 2' H' H' ? 2#JH8JHJD) ' _' ?$8< DD2' 8' 8D*JH ' 28D) D)' ` !' D)# D2# 2#8' _' ' D 2D)JH 8' D)# ' _' J 8 JH' 8' 2 D)#' <' ' #<E <' # ' 8 D)JH 8' ?)2 JH< J ' _' I ; 2F#< F<' 8' #22 ' ? 8JD) I0' J8J ' ' : JD)<D)J', Y' _' ? 2 JHD) ' ' 8' #<J8' $# HF#22 ' _' 2< F#22 ' _' ' ' R<#J <# H' J8' D) ' < ' $ 9 # ' JF #<J J' ' ! ' # ' H#') 8#22' # ' ! !' ') 2 ' # 8' $ # 822' _' ? 2#22' # J' ?<8< ' D)# H' M28 # ' 2 # 2 8 ' H' 8< D)# ' F# 8' 8' D)2 8' < #J' ' F ' D)J<#J ' f J' ' F# 0' # 8<' #22' 8' < J' #D) J 80' E#2' #J' ' 2FJ # ' 8< F<' ' ' W DD# ' !' F' ! ' ' # U' ' _' ' , ' *) < # ' 8< D)#28' _' ' w' ' " 1 ' ! !' 82JD) #' F <8JD2 ' 8' F<D)' 88

$+w2#F ' 2 8 -8' # 8+' F+8 EF ' 1#2#F ' 1#2##' +# #' 8G8 ' G8 #w' 8 ' / 8+G 2F ' 1#2#F ' 8'8EF #' 8G8 ' #0' 8+ #w' ### ' E ' &8J8 ' 18+# I# ' F 8+F-' G8 #8 -#F ' I #8-' #228 ' ,B Y' #' -F ' 8G8- ' < - 8+ ' #' J8 F ' <+w2# +F ' SF#' # ' 822 ' #- ' J8J#E8+F ' / 8+G 2F-' 1#2#F-' 828EF #' 8X' # 8+ #w' JF ' K ' - 82 2# # F-' -F#-' 8 ' / + F- 8 F-' 8X' J2#8 82w' G ##' 8 ' 22F-' < + I F-' 8X' J2#8 82w' + +8#' ' ? 8 ' / 8+G 2F-' ' 8 J ' 8 ' / 8+G 2F-' 1#2#F-' J E## ' 8 ' 8X' G#w' 8 ' E 2 J ' 1#2 ' G# ' 8 ' J 8 JH' 1#2 ' 2G #' 8X' + 8+# +F ' E# 8 JHF-' 1#2 ' / # J + J # ' 8 ' F+G#-#F-' 1#2 22#0 8 8JH ' 1#2 J + # ' 8 ' 0' JH E' 1#2 ' +J# ' & FX' #GF#2 +F ' 8 ' +GF#2 0' +F ' 8 ' X' 8< 8-' 821# +#G#@ - #' 1F8+8' 8G8-' ! 8< 8 +# 2#-' # 8+ #w@ #' -F ' 8G8-' ' # 22 +F ' F- + 2#F ' 8 <8' / 2 F-' 1#2 ' G822# ' 8 ' #2#2EF-' 1#2 ' / 8+ 0' E G# ' E F-' G8 #8 -#-' ' 8+ #G ' ! F# H 8F-' 1#2 ' G 22# ' # ' 2#2#F-' + J# ' & F E J+#JH' 1#2 ' & F# E # 8+# ' 2#2EF-' 1#2 ' 22#0 " + ' / 2 H8 2#F-' 1#2 ' & F G## ' / 8+GF-#F-' ' G ' F-' F 8+F-' 8 GF ' JJ ' 8 ' J2X' - 822# 8-' / 8+G 2# ' 8 ' 2## ' 8 ' #X' I 2 #28- ' # ' 8 ' 5

F +8 F-' 1#2#F-' GF-w' {8J# # @

B C' A' 7!' ' ' ' 6!' 454 75 ' (?' : 4227 1' ! '1 ' ' 0 " 875 ' . 4 48' 454 '8' ' E' t 6!' '3!'
B C' K' - ' ' + - ' ' ' # B' ' : !

B C' 4 (2'78' '5' (45'45848 ' = :' 1 52; (1 ' : =('(1 ' 5=5' 8=27 (5' ' 4 ' = :' (2'(8' ; (58(8 ' 49(8@4 (78 ' 494 ; ' 7 1' 4' 84 1 42' 4 ' ' 4; '48' 1 '224' 3= 1 '551 ' ; =5<2(7 1 ' '5' (45'(1 ' 4?59' ' 4 ' 5 4 : (?7 1 ' (5' " <'2'5 1 ' (45'(4' . 4 4 1 ' 5= 4 (' ? ' '5 (9(' 1 '22' : 58' 8 '@(25 1 ' (@5?' 2 ((5'(1 ' = : '(1 ' 3(: 7' !) 7 (' '5<48 '8' (5' 1 '8' 4 ' (1 '8' (; ' 4 ' 7 ' '5674' ; =545 ' 7 !' 4 ; 4 (5 '7 1 ' ; =5 7 1 (; '(' ' ; = '(1 ' ? '7' (5; '@' 4 1 ' <(; ' !' (5?4 1 ' . 49' 0' : 4 5'84 ' 9 ' 4 5" (55= ' ; 7 1 ' ; !29' 87'8' = ; 4 ' : 78 ' '5' (; '4' ; 4 ; '?' ' t ; !' 4@ ' ; 8' 1 '224' 7 '5674' ?48'?4 (" 875 !'] (! ! !' @(!' ZZ!

" ! A

R ! !

? 2JD) HF1 JD)+H < " 2D) # @

_ 1#< ?<8< D)#28 8.H2### @

Yl ## JH # ! #F## 8 8 , Y

#+)#8#J2# JD)# 8 #D) J @

J2D) 7 l# D)8J # D)# U D) H

:bU'5" B C

Y ; 2E#l 2 U# #8 Y#D)# #) H1F)JH)@

l2 +8JE#D) JD)E# 8 8 UF)# @

l_D) 8E# m 8D)JH 8<W) JD)E#

1bU;bU'5 B U C

h8< # D)# 0<<# 8 1F##

_2 D) 2#F F) # m#D) #

2# J# # s JH8 JD)#1# # J2 ##

B)FD) 2 +F#28 @

#J 2 #J 8 D)2 F# 8

?22 J D)# FD)#l# 7 #8 F# 8

m2 2 8 D) H 82 # 1F)8H

2D)JH # J 8 Y<8*# D*#28 @

FDD# H D)1# ? 22 F 8 # @

_2 GF# H# D)2 D)JH F22@

" ! 8< 9< E2@

?#<8< D)#2 < 8 `W)#28 F# ,4Y

_2EXD + J <F#<8JH <D) D)J

= B U::bU;: ;bU@5U;:!)

2 ## & 82JD) J8 # 8

" ! #28 F D)J)28< #)< EJH

"8- F 8- <+ -2#F J+F8 F #22F- +8

l#+# /8+G 2# J +# #- @

FJ F -F 1 #2# - F+8E JH#@

F E F- 8UF- 8X<FG 8--8 -F<+

J <F 8UF-

"2 E#F- l 2E8 JF F- JF- E#8 E F

&81#8 E F- SF 8 # 12#X# G+ l8

lF2 F- ?

$+ 82#F l 2E8 J#lF 1#2# + #

! # 8X # 8 # 8 <+ 82#F G8--#--8

E#2FJF2

; #G#2 8 + [

++#E8 #H# <# # &+F#E 8@

&#--#< F+ SF# E#2#GF G2 E#F

F E ' F#28 J8J# # @

$8+#8+8 F+ 8 2 # 8@

F- E#8 8- l8- J <# +8G#-8

&8l + l8+F lF2 F+8- - GF# 8#-+ - +#-

FJ+ # F- JF #- 8 - SF# F8 F+

J <F /8+G 2#@

; #J +# #22F- +#- 2 # 8 28

#X8 <+8J F+ < <F2# F #SF8

F l## # # F- F ++ #- +# 8

/8+G 2# G # 1#2## 828EF #

JJ#-# -F J8 F 8+ 8- 1#2F- +8-

&#l# ##- 112F8 8- < 8 8- @

F l## ; 2 #2# F- - 2 8+

F _ - +8 F#- ### # F-

B C K 6 # + # B 3 =5! ;=! B0DC K 11 # B ':!

B<C A + $ $ 1 # 8 # # O! ? #) ((=(# # K B ':!

BrC A ! # ! 1 O!-- - O 6 $ # #O . #-7 # K + 6 B ':'

! !) ? '171 @('5(8 3 'G78 '5 3 =5! ;=! ! 7:2'5 3(X; 24 75 = 8; '@ ((5(2?= ' :'8'=&U

j , $ 6 K - $ # -# $ 1 - 11 # 8 $ 6O K + $7 6 . $ - B '!4! 4875 ? =<=2'(;' ;' 4 4 78 " ;=?';'(75?4 :(84 3(; 4578 ?4(; '@8' 4 67(4

41(545 35G78 ?'1'?'((4 @('5(8 ?4 42'565= @ ((4 1' 458!) = 6(2?78 ' :p8!) 4855 ' (674 '5 3 =5!

;=& ! 7:2'5 ;' ;' 4 ?7@ <=2'((: (55= Z,, (? (75! 8' 5(51 !

A B " (!

! !

_A 9 2 / 2FD) D) J Y4 #
) 82J _ D## ### # 8DDJH F#JJ8 <80
D)J2#JD)JH 8) F#<8 #D)#-H m2# <
D)#2#J<# 2FD) / 82 D)# H
hD)2<# D) # D) D)#22J8

9 2 F- # 2F J #-@ # F-
/ 2J # - 8+## F 8 -#- ,B Y 2 0
E+8JH JHF- 1#2#F- F+8E Gc 8X 0
J# 8 + FF- 8- # <8+8G+# # 8 -F
<FE 2F ,BAY 28+#J JF- ! 8#I G# 8
G#- & 2+# E 8 2 #J 8@ !# 2 # 8 -#-
+# F+

(_AB 9 2 ?)< 82JHF 8 < 8 8 _2 @
! / # K
! JHJD) #
K !00000 h<FX<J # " !
#)J # h0##82 8) ! ?m< D)<J J
8< D)# # F)8J 8 2< D)82
" * ! +
F# h2#< A2 2F #< ! #< D)#
: < 18 D)8JH<JF#28 + , hD)#<80
J 2 #18H ? " !

9 2 / 82JHFF- 1#2#F- & + 8 #c -
#8 -#- E + #I# 0) #228 #F- 2 GF- 8# #
$+# F -FJJ8--# ,B Y 28+#J F- JH0
8G#- $#J +F &+FX- < - 8
+8?G I# # ,BBY) $+ 82#F # E82G8 -8 #
SF J8J#E# / G + JHF- 8< - 8+ G#
8 8 HF- 1#2 +G 2 JH# I#J + 8+ = =#-
J +#- E#8 ! # F# E2#-#F- -
2F 8 J #- ## @ G ##- 0
J# 8 + F- 8+ @ 8JH-JF#28F- ! J+#
&8++8 -#- ##

_A. 9 #22 8 22#8 A2 I2J D) 8
#<8 , 24 I 1 4 < #8H !
DD h<F#<J e # !0000 0
D# DD D)8H # <D)#)J<# _2#<18 D)JHD)
m2F# +# 9)#18H , !I; F H
? < 88D) J8228 ?! # G
, " # / w

9 2 #22# 8F- 8< - 22 8 -
- 8+## H -8 G # , ## Y - 80
+#F -F2 8 J0 + #JH J - +F# F+ @0
!# 2 1#2#F- &+F- # J - +# G# F+ 20
F- JH #E 8- - <#8 - -J+# +E0
JH F- F# # F- 1#2 E## ! J+#
#8 -#- 1#2#F-SF8 + JH # 8 &
8228# #- G#- 8+ F- I
G82## H+#- # 8+ #- 8 2 F-0

B C ! 7 458 ?4<75; 78 4=?41 (55= 65= ! =2=1 :(5(58 =5(8 4 '51 ;=5?'?' '5 (= =5 :'(5= 67=?
(: '@8= 5=145 ?4" (' 55(2! % (! (55! -, ! . 4 ! 0':! ! ! @! @!)Z 4 5?';48 =;4 .
B ,C 4 (2'= # 4 4 =55(;'A '?4 '5< ((? (55! Z, ! 0 '4 (' 5 ?4 87;;488= 4 + # - (67=
<(1 '2'(. 4 '(=55(;'A (; '@ = ':78 0':;1 ';'8 ''<'' 47?(U (@@422(7 7 87@ ((? (55! M 4 Z ,
7 4?(;378 '8 <7' . 49 =55(;'A 9' 3 '8 '(5''8 4 =:'' G79 (4=8?41 (55= Z ! 0 '45'1 87;;488'
1 9'178 ;7" ?4<'14 = (55= G''9 (% (! 87;;488' ` + # 92'178
=;;'878 (55= G79 (4=8?41! 4'5?4 9'' . #- + 2'2'78 <'2'" (2'' 7 87@ ((? (55!Z ,!
4 (271 0 # <'2'71 (@@422(5 % (! (? (55! M ! :' 7@" 4G78 4<4 =5 55(248 2 =5! (? (55 M- (4 (4
;=1! M ! 7;;488' '4" +## 9' 78 45G78 =:' ''1 4<4 75 55(248 2 ! 4 ' ! (? (55! Z (4 (4 ;! Z ,!
B C (42;7 32; '8 48 ?4 67= 87@ (?'9'1 =8 (? (55! M, Z 4 Z Z <7'884 :: (41 9''! %'?4 ((2= 71
::(71 '8 = 71 (? (55! Z Z 4 Z Z!! 5543(?78 87;;488= 4G''8 =:'' (55= Z Z 4= ' 45 4 754:(?= 87;;488'
'2''54''8 2=5 78 (55= Z, 7 87@ (67" (55= Z, =:'' ::(8 9' !
B C %'?4 ?'; (87@ (?4 . 4 71 '; = ! 87;;488'=5':78 (? (57=8 Z, Z 4 '5< ((55! Z, !

; O b : bU5 : bU5 + , ! ! !
4' ; 4 3' 2! @4' ; 7'bU4 ; 2" (; 2@ bU2!
2! †04 ; : ; bU " 1 4' 4@'2" # !F , !
@7'@ ; # ! '22457@ # , ! 24'
! |D) # D) ; @bb' : ; '4? ; 3' @@! = 54@4'
1 = '@4! # E
@7'@ ; # K !E Z' k2@ : '5'
Y @# ^ ! - UQU @' 5 ; 3bU ' 8 8D)22
37bU2bU5 ; bU ; : C42bb!' 3' 2' ; ; ! ! '
R ! V e IND - 8#JH 2 # # . M')
! 74' : bU' : ; 3b> : : ? DZ ' : : '! bU ; :
I ; D## 8 @4' ' 7U ; 3 ; 1 4' @ 4 @ ?2 ' 3' @=@
F2 '5G! = 4 : ! 1 4' bU ; 2" # !

2! : @@*, 242'4 : 4 " * 2 : ! 27! @ U'@ : !
D)J 8 <F)J <#)J D)JH h< <
J +D) <#D))2 8<JD,0J 8 $
< <? 28 H ? 222 J<8< D)#228 /
C $ D (+(<# 8 <JE#22T _ #8 F<
$F <D)#D)# 8 E # ! ! ! 1 $ B L
8 <# # J) A F! ! ! r !
! ?
! , ! w " F! I ; 2F<J 8
< $# 2 D)J # <# 2Y<8 F
i ! J8 #2 8 82# _
DZ 8 <E# <D)82D) " !
hF #) 8< 8 # D)2 $# <F#E# #8 !
) 8228 <)F d E#2
HF#< < h8<J J Y<8D)

2! ; : P@ = 1 U ; = @ ; U'5' 4 ; !@ U' ; : : 4@&

8- E + #8+F @ $+ 82#F 2#E# +FU
8F 8 8 1#2# +G 2 JH#
9 2 8JH #- 1#2#F- &8+#2 J <+# 0 ?)AK
G# F+ <FE &+ -1F 8G8 8228 #o-
?2 GF- - ##8 -#- # & JH
<#F- <#-J <F- 8+8 -#- +# F+ &F 0
G 2F- 8 +8G 8U#J# F+ &+ - F- 8 +8G
0 $#J +F 8U8J F- 8 2< # <+ 8 +8G #
8E8- +# H F# 1#22# 8 22 JH# F 2 +#8 0
-#- # <+-82# ; #-8 $8 +-8 # F+ - 8
: F#8- 88 ## 8 HG2# 8 -#-)@) 8E8-
2#2E# 1#2## E 8H E# # #E# $# 82#F
+F 8F # JH 1#2# / 8+G 2#
- + G8 #8 -8-@ JHhEcF- 1#2#F- 0
JH E## +8G +8 # J#<#
9 2 # F- 82JH #- #- 2 ##0 _A_
+ +E8 -#-@ -E8- JH E## 1#2## / # J 0
+ J # $+ 82#F &+ 01 +0 JH 8 G8-)
F / 2 8+ J 1#2# G-cG# J +
8EHF 22 F 1#2#F / 8+G 22# # 8+
22# - 8 G # - F # / 2 F- 1#2#F-
+ 2## 8 ! 8EGF-#F- F1F- ' F + #G
UFGF2 # -FF 22F- 1#2#F- E #
+ #+# J + F+ ,E#8Y + #- E #
+82#SF# + -18+F F+ # # 8+ # 8
8X ,8UF-Y +8 I F+ ,B.Y F+JH EF-
1#2#F- + # 8X G8 # - +# F+ 0WW0
$+ -2#F -F2 - +8GF# # SF J8J#E80
+F ! J8 2#F- 1#2#F- 822 JH#0 F 2 8 -#-
8 G 2F- 1#2#F- + ## / 82 F- I#J +
8+ &F E # 8+ 1#2#F- G 2# 8X $#J
+F + FF- 8- : F#8- 8280 +#- # @R
8E8- H 2E# -F8 # 8G#- F- + 2#-
+8G# - ?
9 2 $+ 82#F &+ 0J +J 8 -8 # 8+ QAC

B -C 5 4 (2'(?(15(5" @4 (141= ((8 @ ((? (55=8 , Z M, '4 'Z 8; '@8' '4?(1 . 4 72(1
=5(8 ' ; (1 '@ = =5(; : '87'8 '5 O' : 4 5'('671 MW 8 (@@422(7 '7 '5< ((55! Z, Z!

A K " ʿ !

! !

JD)8 ʿ 8ʿ 2d# U<-Hʿ _ʿ D)8E#ʿ 8ʿ < D)82ʿ
1#ʿ ¡ʿ # 9)8JHʿ _ʿ ' 1ʿ 8ʿ I_ D)82KF#
8ʿ 8ʿ qm<8<D)'HD)# Hʿ *YF 82#D)K #ʿ 8ʿ <0ʿ
D)*8ʿ ʿ$! !ʿ ʿJ _J81JDD<ʿ !(ʿ
D)E#ʿ ''ʿ #Jʿ 'D)ʿ 8ʿ I_ F<8H KHD)ʿ 8ʿ
< ʿ ʿ ' F 8HD)'Hʿ _?<D)82D) ʿ_ʿ ' F JHD)'2#ʿ
ʿ < <8<ʿ _ʿ < D)ʿ)D)82 ʿ U #-2#8ʿ D)<ʿ
82z# ʿ ?m<2z 'ʿ 8 J<D)#ʿ _2 ʿ 8< 82F)#<ʿ
!ʿ D)JHʿ U_ D)#.ʿ 8<D)8 #ʿ #Jʿ <#JD)<0ʿ
'D)8HD)#ʿ <8 ʿ #ʿ 28 F<ʿ _ʿ _22< 8ʿ #<<D)Jʿ
JF8ʿ ʿ D)J ʿ_ʿ<ʿ 8 #)#- ʿ<#D)ʿ ʿ 28 # F<ʿ
_ʿ<ʿ D)< K #ʿ 8ʿ _2#2< ʿD*+#' ʿ _ʿ<ʿ D)ʿ
ʿ+ 28 # F<ʿ '9!ʿ D)8 ʿ +<FD)' ʿ #+ʿ <#8D)<'D)0ʿ
JHD)# Hʿ D)8ʿ D)#<28 ʿ <8'H#ʿ _ʿ<ʿ D)8 D)# ʿ
D)<ʿ ʿ_2#2< ʿ J8J #W)ʿ _ʿ<ʿ D)'Hʿ 8<#8 D)ʿ _ʿ
ʿ 'D) 8ʿ '8ʿ F#28ʿ _ʿ<ʿ D)ʿ6 m88HJD) ʿ 8ʿ
d8<#2#ʿ $# #ʿ D)ʿ <#8D)<'D)8 ʿ. H 22ʿ 8
822ʿ & ʿ '<ʿ !ʿ 00000I`2D)Jʿ 8#E#8 9 JH
#< ʿ 2 ʿ J ʿ #D)ʿ ʿ #8 I8 ʿ < ʿ 8H ʿ z#'H#ʿ <E

/2 H8+ JF ʿ 2#F ʿ G-#G#ʿ 8 ʿ 8 80ʿ
HF ʿ1#2ʿ +G 2##ʿ# ʿSF ʿ 8 8 HF-ʿ8 ʿ E -ʿ
#22ʿ 2#2E#ʿ 82EF# F-ʿ 1#2# -ʿ 1#2##ʿ /8+ 0ʿ
E G#ʿ 8 ʿ & JH E -ʿ1#2# -ʿ # J#ʿ J8J#E80ʿ
+F @$+ 82#F ʿ 22# 8 -8ʿ # 8+ʿ EF -ʿ1#2# -ʿ
F+JH E#ʿ1#2##ʿ + ##ʿ #ʿ8 ʿ &F JH EF ʿ8 ʿ
/ 82 F ʿ 8 ʿ &F JH EF ʿ -8 # +8 ʿ 8 ʿ
F#ʿ/ 82 F-& # #F ʿ-F<+ ʿ# # #J -ʿ
/2 F-ʿ +# 8 -#-ʿ -ʿ 8 JH +# 8ʿ
ʿ $+ 82#F ʿ 0J+ 8##-Sʿ # 8+ʿ $#J0ʿ
-ʿ#<- -ʿ # 8 ʿ ! GF-#F-ʿ8 ʿ 2<# -ʿG8--80ʿ
+F ʿ<+ 82#F ʿ#- FEʿ8 ʿI#J +# ʿ< + ʿ8- ʿ<8+ʿ
8 GF-#F ʿ 8 ʿ JJ#-F-ʿ8- ʿ1#2#F-ʿ 2<# #ʿ # #ʿ
8 ʿ # F#ʿ 8 GF-#F-ʿ< 8 # @$+ 82#F ʿ
E8<2 + E# ʿ# 8+ʿ $#J -ʿ <FEʿ - 822F ʿ
+8E#ʿ 8 ʿ I#J +# ʿ < + ʿ 8- ʿ E8ʿ 8 E8 ʿ
2<# ʿ -# #2# 8+ʿ 8 ʿ J < 8ʿ -F ʿ +8G# 8-ʿ
8UF-ʿ 8 ʿ 82#G# -#ʿ 8-ʿ 8 ʿ # F#ʿ
8J F-ʿ 1#2#F-ʿ &8+#22#ʿ +8G F 0$#J +E 0ʿ
ʿ,BKYʿ & 2EF-ʿ1#2#F-ʿ 8 22 JH#ʿ 8Xʿ
+# #J# 8ʿ + FF-ʿ 8- ʿ ,B_Yʿ /#2#F-ʿ 8 0

B Cʿ 5 4(ʿ?'9'1 78ʿ(?ʿ(55!ʿZ !ʿ 7?47 1ʿ%42ʿ '?45 1ʿ%!ʿ 4 '22"ʿ<'2'5 1ʿ 4 5(884ʿ(55'8ʿ9''ʿ4ʿ=:''884ʿG78 (ʿ
2p=8ʿ 55(248ʿ(55=ʿZ -ʿ?4'5?4ʿ 4 5(884ʿ< (41ʿ4G78ʿ ʿ(55=8ʿ9 !ʿ O';ʿ4 (ʿ 44 3(578ʿ '''8ʿ;7"ʿ 4=28ʿ
<'?78ʿ @R8 =2(1ʿ (8;:(241ʿ8; '@8' ʿ84 ((1ʿ(ʿ 4?(ʿ87:ʿ(55=ʿZ -ʿ OR8 !ʿ !ʿ-!ʿ O';ʿ4 (ʿ4 '(1ʿ'224ʿ 44 3(558ʿ
?4ʿ67=ʿ ' 4 5(;37(ʿ(?ʿ(55!ʿZ Zʿ'567' ʿ49@528'884ʿ =5(;3=8ʿO 45848ʿ # ʿ # ʿ # ʿR!4!ʿ4ʿ 4 5=ʿ87=!ʿ
4ʿ4=ʿ ' 4 5ʿ(?ʿ:55!ʿZ, ʿ'567' ʿKʿ ʿ # - # Bʿ'!ʿ4!ʿ'5ʿ '5;72(ʿ;=5G';' 7 ʿ541@4ʿ(ʿ =8 =ʿ ''ʿ67"4"
@=8 4(ʿ8@;;488' !ʿ .4 5(''ʿ =8 78ʿ'8ʿ8'172ʿ;71ʿ ! % ʿ< (4ʿ 87=ʿ (55=ʿZ, ʿ67=ʿ ' 5 78'78ʿ 4=8ʿ'5ʿ @ (42'=ʿ
=5(; =':4584ʿ ?4 ';R ʿ7 ʿ 85@ (ʿ '5ʿ 49 ''ʿ'41654ʿ'5ʿ (2 4 =ʿ @ (42'=ʿ (@5?ʿ (8 42251ʿ # ʿ 4=?41ʿ (55=!ʿ
4; (578ʿ4ʿ '54708ʿ8=27 78ʿ'4 '1" 4 5(''(55=ʿ'8 4!ʿ 4; (5=ʿ5=5ʿ@27 48ʿ67(1ʿ?4;41ʿ (55=8ʿ ':5''ʿ%4 8'=ʿ
O':4 5';(ʿ 455''&(@7?ʿ] ('(5!ʿ 74!ʿ@(!ʿM ʿ4'6 4ʿ87;;488'884ʿ5((ʿ # ʿ ʿ! % ʿ8'172ʿ;=5 4 5(5 48ʿ
67(4ʿ;71ʿ ' 4 5(;2'=ʿ;=5 45'75 !ʿ %'?4ʿ87@ (ʿ(55!ʿZ,,!
B ZCʿ%'?4ʿ5= (1ʿ(?ʿ(55!ʿZ Zʿ85@ (ʿ @(!ʿ,, & !ʿ =5(2?58ʿ'8ʿ<7'ʿ .4 71ʿ :'8'(5=51ʿ =55(;'(4ʿ9 ''"
G''9 (ʿ 55(248ʿ %ʿ (!ʿ'5ʿ67':58ʿ - ʿ5=5=ʿ87;;4?''O # ʿ! ʿ?4<75; 78ʿ(55=ʿ ,ʿ9) ?4'5?4ʿ
1 ʿ ʿ #uʿ?4<75; 78ʿ(55=ʿ !ʿ ʿ+ # ʿ ʿ=;;'78ʿ(55=ʿ !) . #- ʿ! ʿ
] 7('"<'''=8ʿ9'''ʿ?4<75; 78ʿ(55=ʿ M ʿ@=8ʿ<(754ʿ + # ʿ+ ʿ9' ʿ?4<75; 78ʿ(55=ʿZ !) ʿ
.((22(;3"<(2'78ʿ;24 ';(7ʿ878;4@ =ʿ4ʿ(: 4575;'(=ʿ (?ʿ884;7271ʿ 4?''ʿ4ʿ 7 4?(;3=ʿ87;;488''9 ʿ78674ʿ(?ʿ
(55!ʿZ ,ʿ67=ʿ=:''!) (;;488''4" # ʿ<'2'78ʿ 75;3(?" (''1" .49 ''=;;'878ʿ(55=ʿZ -!) 4'5?4ʿ
ʿ'"<'2'78ʿ + # ʿ67"=:''ʿ(55=ʿZ Mʿ.49ʿ ''ʿ4ʿ?4171ʿ ʿ<'2'78ʿ 4(22(;3"9 ''ʿ67''G79 (ʿ
%ʿ (!ʿ=:''ʿ(55=ʿZ,, ʿ84?ʿG79 (ʿ ' 41(;371ʿ4ʿ 55(2!ʿ 2 !ʿ4ʿ@= '78ʿ(55=ʿ(4 (4ʿ;!ʿZ, !
'178ʿ.49ʿ =55(;'(4ʿ6741ʿ141= (5ʿ 55(2!ʿ 2 !ʿ48ʿ ʿ2z5 7'4ʿ(4 '8ʿ?'; 78ʿ67"<7''ʿ # ʿ 3<'8&
'(578ʿ6541674ʿ=:''884ʿ5((5ʿ(55=ʿ(4 (4ʿ;!ʿ- ,ʿNʿ ?4'5?4ʿ - ʿ ʿ141= (5 ʿ;(4871ʿ(55(4ʿ (4 (4ʿ ;!ʿ- U
X2 Z!ʿ 4'5?4ʿ ! $ ʿ;4871ʿ(55=ʿ-- !ʿ 4R5?4ʿ ! ʿ> ʿ # ʿ;(4871ʿ'5ʿ@ (42'=

U; F 2F)# ˢ ?m<# #JH 8<+D)JH # 8ˢ 2 # < #
ˢ D) HD)#2 U #G ˢ ˢ U 8

9 2 ˢ I #h#<8ˢ J<ˢ ˑ ˢ 8Jˢ D)<Jˢ _ˢ # ˢ
F2JEJHˢ #<8DD1#D)< G2#JJD)ˢ D)# DD <#< ˑ ˢ
8Jˢ # ˢ J ˢ D)ˢ <# ˢ 2 ˢ <#JJD)<ˑ D)J ˢ
h ˢ <#<<hH #<< << J###<< 8ˢ 2 ˢ J8J D)ˢ
?I$D)J J # 8ˢ ?< 2 JJD)# H _2 ˢ 2FE)ˢ
?$8<J## Y<8)# ˑ ˢ ! D)J ˢ .< D)ˢ ˑ
29J # # ˢ #J @<#JJD)<ˑ D)# H ˢ h<F<J _ˢ
MA28 F< $# D) <#JJ <h##JH ˢ _ˢ < ˢ D)< H
d<F<J D) H ˢ <D) ##8 ˢ ˑ ˢ <##)2FGHF#<J ˢ
_2 K 2 ˢ < ˢ < < JF#< h ˢ < # #J
ˢ <J<# H , ˢ 28 H#)< #<# ˢ A 4 ˢ !(

7

9 2 ˢ " ˢ ? ˢ ˢ
ˢ ˢ ˢ * ! 7 ˢ
J ˢ + , ˢ #2# D)<D) ˢ 7 ˢ 0
J #)<# + , ˢ 2FJ)# ˢ ˢ #< " !
9 2 ˢ / , ˢ F#28<DD JD)# ˢ / ˢ
ˑ D#J D#h DDˢ 8ˢ F#J# 8ˢ <) X ## Gˢ
! J ˢ #J ˢ <F#JH #F _ˢ D)2<F)hD# J ˢ
#F< F2G ˢ , ˢ <F#JH 8ˢ " ˢ ! J2

H JH# # ˢ E#8ˢ 8 E8 ˢ # ˢ 8 ˢ #-ˢ SF# 1F# ˢ I#+ˢ
- <#8 -ˢ # ˢ /2 H8+ JHF-ˢ 1#2#F-ˢ
-#G# # F# ˢ +8G # # # 8+ # 8 ˢ ,BCY
9 2 ˢ JG 8+ F-ˢ #28-ˢ H+#- # +F ˢ _AL
ˢ E#8ˢ $ -J# 8ˢ ,BLY 8 ˢ " 220 2J JHF-ˢ
I#+ˢ <+FE8 #--# F-ˢ 8I# -F# ˢ ## ˢ 8 E8 ˢ
E#8 ˢ ! 8X G# ˢ I8-ˢ $#J +E +F ˢ F0
1+ G#F ˢ < --# -F ˢ <FE --0JF#-# ˢ 8 E8 ˢ
ˢ / JH F-ˢ 1#2#F-ˢ 2 JH G# -ˢ
2F 18+ 8ˢ +8 E # +# F+ @ $+ 82#F ˢ
22#-ˢ +F +# 2 H #G## 8+ˢ $#J +E -ˢ #<- -
ˢ 8 ˢ # 8+ˢ &+F- F ˢ 8 ˢ E GF-#F ˢ 8G8 ˢ
$#J +E +F ˢ 8 ˢ JJ#-F-ˢ 8- ˢ &+F- F-ˢ # #
E#8ˢ Aˢ 8 -#-ˢ FGF- # ˢ , . Y ˢ H J
8E#E# ˢ 8E ˢ H+ #J ˢ SF Eˢ -J+#<-#
9 2 ˢ 8I8+-# ˢ 82#SF# +F ˢ E # _ ˢ
E8ˢ # 8+ # ˢ 8 -8ˢ J +#- ˢ / #2#F-ˢ
J # ! J+# ˢ 9 #2E +8 -#-ˢ +# F+ ˢ / #2#F-ˢ
J +# ! J+# ˢ 2F 80 J4 #-ˢ ##
9 ˢ F- # ˢ F2+ H8 # 8ˢ 28+#J F-ˢ —
JH E# 0) / #2#F-ˢ F # # 8Xˢ ! X F ˢ
I# JF2#-ˢ 2#G F+ˢ , I82 # ˢ J +J8+8ˢ J - +# G#0
F+ Y $+ 82#F ˢ # 8+ˢ $#J -ˢ 8 ˢ & 2+# 0

724? 4 54 ˢ (55= A Aˢ ;! - ˢ 541@4ˢ . 4 48ˢ " 4 ˢ '' ˢ 67= 71 ˢ @=8 4 '= ˢ ;A878ˢ 48 ˢ (55= -ZZ! ((;371 ˢ 7"
=1 ' 75 ˢ 4 ˢ <' 71ˢ 4G78ˢ . ((22(;27'1 ˢ ;A851 ˢ 5((5 ˢ (55= ˢ A Aˢ ;! M ˢ 67= 0 # ˢ 4" 85;4488' ! 4(22(;3"
<'2Y . ((22(;2'" =:' 51 ˢ 4<4 ˢ ' 4 5(;ˢ (? (55! Z -!
B C %'?4ˢ ((2= 71 ˢ 3 =5=2= ';71 ˢ . 4 71 ˢ 3 '8 '(5= 71 ˢ = '58ˢ 0 ':4 5'A ˢ '5ˢ . 4 ! 0 ':! ! ! 2`@! 75;7@!
@(ˢ 99 ˢ (? @(! 999 ''!
B MC (ˢ 4?('(? 475?45" (5551 ˢ Z,M) (58' ˢ ' ˢ 5" :4 58ˢ (55'8ˢ 9'' ˢ '5ˢ @ A<((ˢ 58''2(ˢ t ;! (55=674
K ;;99 '' ˢ 67= (8;3(ˢ =5''5';71 ˢ ''! # (2! ('(! ?'4ˢ ;424: (5 ˢ ;51 ˢ '88(71 ˢ 8=2415'(ˢ '5ˢ 141=''(*1
K ˢ 4G78?41 ˢ =1 ''';Aˢ . 487 4; '=5'8ˢ ;424: (884 ˢ 4=?41 ˢ ?'4ˢ 4 ˢ '@84ˢ 1 ' (' \f !- ˢ ;! , !
ˢ (8;3(ˢ 5=5ˢ '5;'?' ˢ (55= Z, ˢ '5ˢ " ˢ ˢ ('(! '!4! , ˢ @ '2 ˢ 84? '5ˢ ˢ @ '2! 55= 4 = ˢ 846545 4ˢ Z,M
'5;'?' ˢ @ A;'84ˢ '5ˢ ?'41 ˢ '' " # (2! ('! (ˢ 4?(ˢ 5=1'5(51 ˢ 65= :4 58ˢ =:Y ˢ ;=5845 '45 ':58ˢ 2= 45 '=E ' = 5!
4 ˢ ('(5= ˢ 67= 71 ˢ @ '= ˢ (? (55! Z,M ˢ '567') 4584ˢ (5! =14 Aˢ ?7= ;' ;(ˢ =241 ˢ (@@(54 4 ˢ 4 ˢ ?7=:58
Kr<4 4ˢ 84@ '1 (5'8ˢ @4 '5(584 4 ˢ 67= (55= ! ! ' ˢ 5" :4 58 ˢ 45G78ˢ 8A@4ˢ 1;1'5'5'78 ˢ '@8= ˢ ?'4ˢ (8;3(8 ˢ 67=?
K ''! # (2! ('! ?'4ˢ ;424: (5 ˢ 1 ' (' ˢ (? 51!Q) :4 " =:' 71 ˢ 4 ˢ 6'''?41 ˢ '5ˢ 0 '=5(ˢ 5872(ˢ 4<4 ˢ 3 =''!
(9=5 ˢ @(' 4 ˢ (? (55! Z,M!
B- C 4 '22= . X " '; = 51 ˢ 87;;4884 4 ˢ G79 (ˢ 4 8'=541 ˢ 0':4 5';(1 ˢ 455'' ˢ 8'1''2 X 5(5 48ˢ # ˢ '" 4
2@'548ˢ ˢ (55'8ˢ ˢ 7 ˢ 87@ (ˢ (? (55! Z, ˢ ?4'5?4ˢ ˢ <'2! Y 78 ˢ (5! !) # ˢ <'2! 58 ˢ (55! ^r O ˢ
<'2!%' 4?4 ˢ (55ˢ ,!) ! % ˢ <'2! =? ˢ (55! D!) # ˢ <'2! (2= 4(5ˢ (55! !) # ˢ <'2! ''8 45! (55! - ˢ
42 -!) ='(;(5ˢ <'2! 5278 ˢ (55'8ˢ ,D!) s 5'8ˢ 3= 5'5ˢ <74 ' ˢ # ˢ 87@ (ˢ '541= (278ˢ '5ˢ 49 7ˢ '?4(5 ˢ (2''!
? (5 71 ˢ (884 = ˢ ' 41 (;371 ˢ 4 78 '88'171 ˢ 4884 ˢ 67" . 4 71 ˢ '; = 71 ˢ 84 '41 ˢ 4 ˢ (55=8ˢ ;=5 =97' ˢ [

! !

8J' ?y28 #GF1J# _' GF E' <F# H8F1' " D)2 m#J' # !

Z ,' #2!' L' '5P' ;o ; Z F 2:! ;
! ! '='L' 3!' =22 ' K= 7':' <'4 bU'5:' :=!
. 7'5' ;: 7C&bU ' mU';:' 2'' 7U5' P4<<'!'
;3' = ' #U;:;' ' S ' D%27'@4bU:bU;3' '
2 ':' ;:;bU'.:!' K ' <Z 7'-34' :4=
+ ' A !' !'!' P75&
;bU:: ' := 7':' 2' ;: ' ' # ' ' Z'
A# ' " !' 41545' '224&.bU&
IF) H' # ' ' ? " !' BU8JHJD) 2'
' P4G '24' ! bU;:' ';!' 2 '8:5'7' :4'J. :bU'G'
Z' <%27 1:7' ! F Z24::' ' . ' " F !'
L4:: 5:' '5!' 7'@;') ' '22': @ '
!' F 4@.7@' ' ='' '22' ='@ ".3' Z'
qm<8<< # J' + , ' A2#< J ' A G'
!' # D) PJ' FJH ' !

_ ' 9 2' ' ' 82 9#-H' " !'
J 2<8' J < #G ' _' J #<J' D)#28' D)' #<' J'
8 <D)#GH 'J <' D)#< ' I;2F#<8D) JH' J? 2# 0'
J822 #- ' # ' 5 ' 2 #< ' !'
/ # ' !' ' !' A24:' '*@4@-bU'2'' _'
' #22' ' ' J ' ' !' D)#2
' ' !
?<# #J 8<J J ' ') ' ' &,!G

E8 -8-' JF ' +# # #-' $+ 8E # F-' F #'
$#J #' E8 I#J #' -F ' $+ 82#F ' # 8+' 1#2#F '
8 GF-##' 8 ' 1#2#F ' GF-##' +FE8F-' I#J# '
2 +J ' 1FG#8 8
9 2' # F-' / 2 #' F 2 8 -#-' #-'
2F 80 J0 #-' ' <+ G8 #8' +# H 0'
+F X' G8 F-' EFX#' #-' 8E8-' & HGF-##'
1#2##' H#' 8G#-' &8-# +F ' $+ 82#F ' 0'
JH 8 -#F ' # ' SF ' J8J#E#' F+8E JHF-'
1#2#F-' E+8JH G#' $ #18X' # 8 -#-'
- 8+##' ! X F ' "#+ 2E#' ## ' ,. Y'
#228JH ' 1#2# ' & 8H E#' 8' # H # '
G8 8' + ' 8G# ' < # ' 8 ' 8 #G '
' 8 8 F-' #220G + E8F-#-' 82#G#
-F-' 28+#JF-' SF#8 I# ' 8JH F-' 1#22#F-'
&8+#2?#' +# F+' ,.AY' $+ 82#F ' # 8+' 0'
G8 #8 -8-' F- + 28-' 8 ' #8 -8-'
' SF ' 8EHF-' 1#2#F-' 2G #' I#J F-' 8+ '
! 8 E E ' 1#2# ' F#+J#' & # +#X' 9 #20'
E +8 -#-' # @ / 8+GF-#F-' 1#2#F-' 22#'
; - +#-' 8 ' / 8+E JF-' ! J+# ' +E0'
JH F-' #8+F ' G 2 JHF-' F0'
JH 8 -#-' +# F+
9 2' &F G 2F-' 1#2#F-' ! 82 I G#' ## ' #0'
#F ' 8X<8E# # #-' 8UF-' 8 ' # # #F ' 2 8+#F-' # '
8 E8 ' 8 -8 ' SF E ' JJF F# ' F#+8E 0'
JHF-' 1#2#F-' J822 G#' 8G F ' G8 8+#-' 0'
+ #' --F # ' ,. Y' G+8--# ' # 8+F ' # 8+'
8EF ' 1#2#F ' / 8+G 2#' 8 ' 1 #2# ' 0'
22c' # ' J < ' & ' F #' J8J#E#' 22F-' 2#2'
G 2#' 1#2' / 8+GF-##01 ' 8 ' J 8 8+#' F2 #

B- C' =5 45'75' 55(2!' 2 !' (?' (55!Z ' A A' ;!' Z , ' 4 ' % (!' (?' (55!' Z, ' 7:" A (1' =1!' (5 ';'@(5'
(1 '8' '] ('8' 48 ' 4 = ' =15'71' 67" 5((5 ' 42' 5((4' =275 '] ' (2?7'5' '9'884' 78674' (?' (55!' Z ,!'
(5'<48 4' @d 4' ' =;41' 0 # 6' @=5" '5'; (87' 454 ' = ' (;' @ ='5?4' 845871' 4884' 3=;' (55=' =:Y884' 5=5'] ' (2?71'
'@871 ' 84?' @'8;=@71' =5(8 4 '" !'] ' (2?' ' ;7G78' @ '178' ::(8' <7' '] ' (2?78' (9=!' %'?4' 87@ (' @(!' , M'
5= !' ' (?' (55!' MZ!
B- , C' %'?4' . 4 71' '; = 71 ' 8''; ;488'=548' 87@ (' (?' (55!' Z, ' Z)Z !
B- C' %'?4' . 4 71' 0':4 5= 71' 2:(5'A' 84 '41' '5' . 4 !' 0':!' ' !' =24 =1!' @(!' '!' @!' , ,' (?' ' 4 ' @('' '
@!' ' 4 ' 5= (8' 87@ (' (?' (55!' Z M!

' 'Z' ' # ' ' ' '1J8# '
' & ' ; ' ' ' ' " !'
#J D)U# 8' 2 J2#8# ' Z' U#D) # ' 8'
Z' ' ' ' ' ' ' ' 8 !'
JH' 8' DDIJH D !' Z' sbU22 8
: J D)#< !' ' A"A ' # #J2#DDhH '
8' h H 9)#22' m ' <' U ' "A ' f' #
82 # <' FD)2D) h' #! ' ' ' Z'
' E ' w' 5 ' ' G'
' ! !' !' ' !' ,' ' !' Z' ! !' '
Z' ' ' ' ' !' ' ' w'
' , !2

- = ' ' ' ' ' '
' !' A' ' ' ' !' J !'
7 , !' / ' ' 1 !' ' 9'
' 9' ' ' # ' !' !'
' ' ' ' ' " '
' 9' ' 5 ' ' " ' 9'
' ' ' ' (4 ' = '
' ' 1 ' 9' ' [' ' %. :'
' 9' ' b # ' 9' " ' % '
' + ' ' "' [# ' '
' 7 ' ' = ! ' ' 9 '
_ 2D) ' # !

- ' ^ - ' 1 ' ' '

K &!K ;' K; ' QK & K ' ' G &>'
K ' B ! ' !' ;' KP K' /K !K' ;!'
;! K' ' = ; K' G & ' ' ' !& K! '
; !' 5 & ' N K& ;' / ;' S ' !'
T&K ;' / ;' T&K ' !' ! ' ' / '
&; ' ; ! ' f ' ! &' 8 ! i M >'
;' / ;' M ' ` ' QK & K ' !'
K ;' / ;' K& ' &! ' ; ! '
a K! 5 !K;' Q K ' / ' Q K ' ` P ;'
G & i 4K K' 5 ;K' ;!' ' Q P ;'
K K ' f ' ! &' ;K' ;! ' !' !1& '
;' !' O K K & ' + : +9' ! ' & ' & '
;' & K' K&; ' K K!' ' K !' !'
' ' !' ;!' @ K K ' ' &
&K ' ' K ;' K ; ' !' ' ;
` !K &K ;' D v K! ;K P ' ` B' D v% &>' 9 +'
!& & ' &! ;' ;! i M ; ;' S ' '
B ' - K ' & + : :9' !K! ' + ' !&K ;>'
K! 9' R K&!1& ' !& ' !' K ' !' K!& '
K ' P ' &/ K ' + : <9' % K&P ;'
/ ;' P ; ' K ! 5 ' / !' /&K!& '
& & ' !' z !' ' ' K ;' K&>'
& ' !' &; ;' ;!' K ' ;! ; i & '
K ' =! ' ! &' / ' S ; P ' !' / '
&PK ' ' ' ! K ' MK ' !' >'
! K ' M PK ' !' B & !' P ! '
& ' 5 & & ' B' !&K f ' K&! ' '
K! K ;' / ;' /K K ' ` B' S P>'
' & ! &' # ;' # K ' &zP F!' + ` B'
G & 9
- ' # ! K& ;' M ; ' # !& ; ;' 9 :

B- C' %=9' : (: ((' 65A' 5=5' ; (84(1' 8' 5'<' ; (' 84?' @ ' (' '(8' 2(; '8' @=8" @((1' ;=(2(2(8!
B- -C' 0 (5;' 75A' ;2'@8' 1' 1 4 1 = (5 ' 55(248' !(?' (55!Z n ' A A' !' Z ' 6"='G59 (' h2;72=8' 8 =5u 1 ';=8 '
'5;'?' ' '5' ' ; n ' 7 ' '5' =@4 4' 49' 1 '=' 2I ' ?4' 4 !' 248' (48 ' ! ' @!' !' (674' @ =' ' / ' . $' '
4927 ' 87 : 8 ' 745?(' 48 ' ?'48' ^"'!' / ' . $#' ((' '5' ' 4 5(;3=' 65((' '5' ' =5'458' : 78 ' 4 ' (5" A A' ;= 1 !' '5'
('5' :=8' 5=8 '8' (@@=8' ' ' ;7 1' =2'8' 4 ' 75A' 1 = ' : 78' ;=5 45' 4' '5 45'45 7 !' (5?4 1' ;2'@8' 1' 1 4 1 = ("
: =5!' (9=5 ' (?' (55!Z ' @(!' - ' 4 ' 2= 45 '58!
B- C' %'?4' = (1' ?4' M - ' ?(1 5(5" 87@ (' (?' (55!' Z, Z!' ' (' 3' ;' 5=5' ?4' . 4 72(' =5(8 ' ; (' !' (' ; ' ' '
4?' ?4' ' : 7 =' 49' 45?=' @ =' ; ; 248' (' ? 1 (; 3(5(' 67=?' ?' ; 4 : (5 ' #' #

AB " ' !

!' JH' ?m< E#E1#JD) ' q 2Jh ' m2 #
#' D)1JDD# 2#' q) J29)#<J' I#FJD)hH' 8 ' hD)' #)U0'
D)' c# ' _ ' D) 2# # 8' FD) D)JH U2#' HDD'
' W28h ' _222D) ' # 8') 8I# D)#28' " '
!
U+ ' ' '$' ' !
D)JH 828' 8J' I;2F HD)# ' _ ' 2D)# 2# #F' '
' ' 2D)# 2# ' _' ' '
' U; F #) ' ! ! !' #' 822D## H' 8'
` !' I?19)# #' 88J ' 1 ' #X)' 8' 1#0'
D)#8' m## 9) ' h81<# ' D)J D)2' 8
0) D) 8' ` !' I_?#F D) ' " !' _2#<88H0'
+D)JH H ' hF 8HD) ' D)' ;2F#1###?88' & !' '# '
0)9)8 #9)' I;2FD)#hH8' 8 hI'D)# ' _ ' D)+ D)2'
8' I ?#F#<8D) H # '] ' D)8 J' !' '
?)2D) ' 8') ' , , !' H#22# #<8' h#0'
+ # ') ' # ' ' ' A'
' ' # ' !' ' " ' ' + '
' + ' ? " !' I_2 1FJJ' '
82D)# ' q m<82#' " ' !

+# ##+)$+ 82#F&#' / H + 8 -8' 8EHF-'
<#2 -F- ' SF#' # ' +#8 2#' / H + # ' F-' 8- '
JJ#-F- ' 8 ' EH' 1#2#F-' " F JH# ' 8X'
H 8' J8J#E# ' 8EHF ' 22 ' 1#2#F-' / 8+0'
G 2# ' , 8X' # 8+ # 8Y' I#J +' 8+
W !' '^g '$' !
$+ 82#F ' 82 ' # 8+' #8 -8-' 8 '
G8 #8 -8- ' F #' F2 #' 8' G8 #8 -# F-' 8 '
< 8 8' # F 8+ H#28-' 8' #8 -# F-'
<8+#8F 'é # ' SF ' 8 22 G#F-' 1#2#F-' / 82J +#'
8X' -- + ' J8J#E# ' 8 ' EF ' 1#2##' + J#'
F1#' 8G#-' &8-# +F ' H 2EF-' 1#2#F-'
/# G #' 8X' #-8' 8I -# ' +8JH0'
JHF-' 8< -' &F JH E#' +# # #' 8X'
#' /# JH+ JH +F ' #8 -#F , . _Y' # G8 -'
FF 8+F-' JH 8 -#F ' 8 ' H 2EF-'
1#2#F-' ' # ' 8X' J# 8' #80'
+F ' , . CY' -8E8-' / 2 #' 1#2##' G#'
#-' 9#2 +# 8' &# H+ 8 -#- ' &+ J '
G8 - ' # ' 1# 8' F F #' JF ' # +F '
G ' < - ' -8 ' I#-F-' 8- @+ 8E ' - <#8 -'
! X F ' SF#8I# ' , . LY' +#JJF-' 82 G'
182#8 -#-' ##

_ K' 9 ' 28 ' 8' ?m<8I ' ' K G
' " " ' # ' #2U F)J*)' _ ' , G'
' . F+#,) ' _ ' ' 8<8#JH ' _ ' h '
' ? '82 E#8 8?' ' # " ' #'
d D)2' W' ?mf8<D) ' D)8 ' _ ' ' ' Y<F0'
d8F<' 8' 28 F<D ' 8' ?<8< F D)' , !

9 2 ' 8 GF-#F-' 1#2#F-' / 8+GF-## ' 8X'
$#J +F ' I - I# ' 8G# 8-' & 2+# E 8' 8 '
F# ' F # 8 ' 8 ' J <F2-# ' <+ 8E -'
8 ' EF -' 1#2# -' ! 82I J#' J 8 #-' 22#G I# ' #E'
8- ' & G 2F ' 8 ' / 8+ E JHF# ' 8 ' < F2 '
< - ' +FE8F-' 1#2#F-' 8 GF-##' 1#2##' / 8+GF-##

B-ZC' 4' <(1 '2'(' . # ' '?4' ?'4 (' (?' (5'C!' Z Z!' # ' <'2'=' =554:(?" (' '1 ' ' . 4 " 9 " 3''4 '(5='
=55(;'A ' =;;'8=' (55=' Z - ' G(9 (' %' (!' 87;;488' ' 9 '" # ' <'2'78' 7 4?(;3' ' 4' <(1 '2'(' (1@" ! '
8' 4' . =8;=1(54584 ' 67" =:'' 'G79 (' 4=8?41 ' (55=' Z !' 07';'87;;488' ' 9 '''!' ' <'2'78' 4(22(;3' ' ?4<75; 78 '
G79 (' 4=8?41 ' (55=' Z, , !' 4'5?4' 9'9!' ' <'2'78' 7 4 3(' ' ?4' 67=' 87@ (' '5' 49 7 ' 67" =:'' ' G79 (' %'
(!' (55=' Z ' A A' !' Z - ' 4 ' 99' ! ' $ ' ?4<75; 78 ' 7 ' '5< (' (55=' Z , !
B- C' #= (5?(' 48 ' ' 4 5(;3" ?'8 '5; '=' '5 4 ' . 4 41' 0 " '(;: (;:= 71' =55(;'A ' 4 ' - ' V' = '78!
B-MC' 4?A' =:' 7 (' 4<4 ' : =5!' (9!' (?' (55!' Z ' @(!' !' ' 0 '8 = '((' 85(1' (:8=2 ' ' '@8=' 48 4 ' (55='
A A' ;= (!' Z ' A ('8' 87A' M!' (78' 48 ' ' (674' (55=' Z ' 7 ' '5' @' =14' 4G78 ' 4 ' =:'' ' 7 ' 8; ':' ' 7 = 78' (55='
Z - ' A (!' 9''' ' 7 ' '5' 4?!' (5 (: ' !' 0 '8 !' 87A ' @(!' !

" ʾ ! AB

! !

ʾ #8ʾ .8#2? .H8ʾ M2 ʾ 2F0
2YD) ʾ <F 9)82ʾ 8ʾ 2 E# #ʾ
.F# ʾ 8ʾ 1;2D)#2 JD)<+D)# H # Jʾ) #2JF#28ʾ
ʾ 2 '-35':3 ʾ " ʾ ʾ _ʾ ʾ
& ʾ U Rʾ Rʾ < ʾ # h8ʾ K.ʾ
#D) #? D)# ʾ 2Y<8 ʾ K ʾ 2YD)K JD)K# Jʾ :#I#22ʾ
D) < ʾ 1 #ʾ #<<<8ʾ !ʾ f

9 2 ʾ #)# ʾ y2 #)# ʾ ? ʾ # D)<D)hH@ʾ
Jʾ FD)' 872ʾ I;2D)82ʾ 8#<8ʾ D)#ʾ 8#<#<ʾ #ʾ
2<F <J< <D)# # ʾ ! ʾK #ʾ ʾ
,ʾ Jʾ ʾ ʾ ʾ !ʾ : F)82ʾ H#ʾ 2 #JH8 8ʾ
e ,!ʾ 2F,) DD0# J0 #<ʾ !ʾ e# ʾ
" ʾ ʾ ʾ 28K ʾ)2#)# 8ʾ ,ʾ
D)# ʾ 8ʾ 2 2 D)#| ʾ 8D)< D)8H " ʾ
wʾ D)J E2ʾ 8ʾ 28 D)ʾ ʾE ʾ ʾ
2#2 8ʾ ʾ ʾ ʾ# ʾ ʾ YD)2ʾ 8Jʾ
28 ʾ ʾ 222D) ʾ _ʾ D)J E2ʾ # Jʾ ?m<# ' D)# 8ʾ 8ʾ
#< 2EI ʾ ʾK ! ʾ ʾ ,! !ʾ
)# D)2D)J ʾ 8ʾ 2;2F<8 D) D)ʾ m ʾ H ʾ n;# #2ʾ
!ʾ □

9 ʾ?<DD#82DD ʾ 8ʾ < ʾ I2 ʾ?2 # 8 ʾ k
ʾ ʾ ʾ ʾ ʾ !ʾ
2D)ʾ 8ʾ hF JHD) D)ʾ <<ʾ 2FD) D)ʾ H
<#2#< ʾ # ʾ) ʾ ʾ ʾ n ʾ ? " !ʾ
D)< DDJH 8ʾ ?< D)<JD)# ʾ 8ʾ ?) 8#22ʾ 8ʾ
8< D)# ʾ <+D)#2 ʾ 8ʾ h#DDg< D) D)ʾ 8ʾ 28 D)ʾ
##)# 8ʾ ʾ ʾ + @ @ ʾ ʾ ʾE # Gʾ
ʾ ?!ʾ " ʾ " ʾ _ʾ ʾ ,

ʾ ,K Yʾ # F-ʾ /# H2 #ʾ 1#22#ʾ " 8+0ʾ
#G## ʾ #-ʾ 2F 0 + +E8 -#- ʾ # F-ʾ
+F 2##ʾ 1#2##ʾ 2G #ʾ 8E8-ʾ 1#2##ʾ 820ʾ
1 1# + G## ʾ 1#2 ʾ 82 F2##ʾ E8ʾ G8 #8 -# F-
;#+ʾ - <#8 -ʾ 1F# ʾ 8 ʾ JH +8 ʾ -F2-8ʾ
; J8-8ʾ 2 8ʾ E#8 8ʾ & G, G ʾ 8ʾ # 0ʾ
JH #-ʾ +8G#-8ʾ + F- ʾ E 8H EF-ʾ 1#2#F-ʾ
22#0 +I# ʾ 8Xʾ + +# eʾ + FF-ʾ 8-
9 2 ʾ # F-ʾ 8 #ʾ #-ʾ # G + 0ʾ — —
E8 -#- ʾ / 2 8F-ʾ 1#2#F-ʾ " F +## ʾ 82+F #ʾ
-FJJ8-- +ʾ # ʾ - 8+# ʾ E8ʾ 8+J+ -- ʾ
ʾ <+ 1 E ʾ $82 G#ʾ E# 8+-F-ʾ 8- ʾ JF ʾ -F#-ʾ
F #- ʾ F 8+ ʾ XX## ʾ 82ʾ ' #0ʾ
JH8 8ʾ -ʾ 2F 8 J #-ʾ ## @ 0ʾ
G+8--# ʾ # I#J8 ʾ # 8+ʾ 8< 8-ʾ 8EH#ʾ
!2 8F-#- ʾ F #ʾ G#F-ʾ 1#2#F-ʾ 2G E##ʾ
8 + JHF ʾ I#J# ʾ 8 ʾ H 2EF-ʾ 1#2#F-ʾ
8EH#ʾ J8J#E# ʾ FX ʾ 2 <#E8 ʾ 2 8# ʾ ʾ
+#8 2#ʾ < + 8 ʾ G8- F ʾ 8- ʾ <+-82#F ʾ #- FE ʾ
$+-82#F ʾ # 8+ʾ 8EHF 0 22 ʾ 8 ʾ H 20ʾ
EF ʾ 1#2#F ʾ /# G #ʾ <FEʾ #+E G2 --ʾ 8Xʾ
$ +#J##ʾ 8 F# ʾ # 8 # ʾ /# G 2 JHF-ʾ
1#2#F-ʾ F+JH EH# ʾ 8Xʾ #0 2# +F ʾ
+ FF-ʾ 8-
9 2 ʾ / 82 F-ʾ 1#2#F-ʾ + # ʾ 8Xʾ G80ʾ) Cʾ
#-8 ʾ # F+ ʾ +8 8ʾ Jʾ # <# ʾ + 8ʾ
8+## ʾ 2 F-ʾ 1#2#F-ʾ &F JH E#ʾ <- ʾ
2F 0#+ +E8 -#- ʾ E#G F-ʾ &8#ʾ #28- ʾ # ʾ
H+#- ʾ SF#8I# ʾ + JHF-ʾ 1#2#F-ʾ / G +0ʾ
G# ʾ 1#2 ʾ # 22# ʾ 1#2 ʾ 8 G#ʾ ! #2 ʾ 1#2 ʾ
&# + ## ʾ 1#2 ʾ 8EH#ʾ !2 8 -#- ʾ ʾ -F#-ʾ
-J828+ #-ʾ - J##-ʾ E 2 -8ʾ UFGF2 F-ʾ 8- ʾ #UF8

B Cʾ 4ʾ '; = 7 1 ʾ . 4 7 1 ʾ 85;;488'=5':58 ʾ '?4ʾ (' 1 !ʾ Z ʾ 4 ʾ Z,M!ʾ 45 58'58 ʾ 8' 4ʾ 5 78 ''8ʾ !ʾ<'2'''8ʾ%4 78 ' ʾ
8' 4ʾ 4 78'' ʾ 4 5(' ʾ G59 (ʾ 3 =5!ʾ '; = !ʾ (55'8ʾ 99'9 ʾ (: ʾ (55=ʾ Z ʾ 42ʾ Z ,!ʾ 59 (ʾ 3 =5!ʾ : 4 4ʾ (?ʾ 4?(4ʾ
;(2;41 ʾ =:'' ʾ (55=ʾ Z ʾ) 75; '8ʾ ' ':78ʾ ;71 ʾ (?:4 =ʾ .4 4ʾ = 371 : '(4 ʾ ;41 ʾ 2;25'?45841 ʾ 49@5 5(' ʾ
(55=ʾ Z- ʾ 7 ʾ 87@ (ʾ (?ʾ (55!ʾ '8 71 !ʾ 7; = ʾ 3 =5';'ʾ : 4 '8ʾ (?ʾ 4?'4ʾ ;(2;41 ʾ ?4ʾ 5 78 =ʾ ' '56' ' ʾ (?ʾ (55!ʾ Z) ʾ
Kʾ 45 78ʾ '; = 51 ʾ . 49ʾ =:'' ʾ 67ʾ 4 5ʾ 87ʾ @ '5;'@'71 ʾ 78674ʾ (?ʾ <'541 ʾ <(;'5= 4ʾ ; 745 = ʾ L (51 '8ʾ @4 ?59' ʾ
Fʾ (5'<49!Q

ABA " ' !

!

' 'E " !

I'8+9)# H # ' D)JH J D) H H# " ' J !'+ '

' ' '++F)#<J' !' '?) 8#22'_ z '

'# ' ' ' ' ¡ , H ' ' " # '

' ' ' # ' !'

' qc28h ? 222z ' 8' qm<8< D)#28 m2# 8# <D) JH'

_' 228h' 8' 2 D) #

; JJ +F ' I# F2 8' 8' # 1# # + #-' F2#8+8-'

8E# -8' 128 I 8+F ' $+ 82#F ' ; E# ! 8 G#'

#' 8' $+ 82#F ' > J EH8 -8' _' 9 2' ! 8< '

E#8' 8+ # ' #E' 8- ' E#8' + #-' # ' 8+' 8< 8-'

22# 8' G8 #8 -8-' J+FE82# 8+' G8- F '

8- ' # ' SF ' # # 8J +8- ' I#G +8' #22F- +8-'

+ #-' 2 8+ # ' J G+8--# -F ' #E' 8-'

8EHF-0 22 ' 1#2#F-' / 8+G 2#' 8#' # 8+0'

8' #F- ' ,K Y' 8' 8EHF-' 1#2#F-' 2G8

8X' G8 # 8@

' ? A(' ' ' " ' ' "!' ' ' ' ' <'

% ' ' F h)' ' ' ' !' ! ' # ' ' @ '

' ' ' # ' ' ' ' ," ' ' '

' ? ' ' ' " ' ' ' ' ' '

' , '_' ' ', ' ' ! ' ? ' ' ' '

' ' ' , ' f ' W!' ' ' ' !

/ ' ' ' ' _28 ' 8'

2GD) ' m ' H' 8 <#2 # H' _' 2Y<#D) ' 8JJ'

8' _F<JHD)hHD)' m # ' _') 8< F<' 8'

; D 8+D)# ' _' F hEJ<#JH' ,+' I2#' ?Y< JHD4#<J

8' ' 822 # 2# 8' qY<8< D)' ?m<#D) D) 2 JH

H# I; D)#2D)#JH 8 ' D) 22' H' 2# D)JHD) ' D)'

8#JH<# 8' ?<# # ' H' D)#28' 2E E 8H' H'

_2D) 82 I# 8<' _' ! ' ' b? (' '

' ' !@ MQ)

<8 JHD) #

8J#E8+F ' H# < # # &FJ8-' 8EF-'

1#2#F-' 2G #' 8X' # -82 JH# +F ' 8'

+# F-' < + I F-' 1#2#F-' F+JH E# 8X' G80'

8' / 8+GF-#F-' 1#2# -' 8 G#' 8' &F E 0'

J+#JHF-' EF ' 8G8-' / H + +F ' / #2#F-'

' 822 G## 1#2## / 8+ #' / # G 2 JHF-' '

82 HGT ' 22F-' 8< -' JH E#'

SF F +' 1#2## / 2 ## ' G #28' 2 E 0'

JHF-' ' 82 I #E8+' 8' J 8 8+# F2 #' SF#

J <8 E## J F- ' # #---# -F 0000 8E8-

/ 8+GF-## 1#2## +# H # @

J2F) ' J

_D) H <#<8D) H ' D)' <' _28 H@'

H' <' < 8JH' D ' 8< D #<#@

I_2D) D) ' 8 HD) 2' E <D)' #<' D)8JH

H' 2 # ' 8 2# 8' 8< D)#2#@

! H F-' J8J# # ' H -' I 8+-F-@

! #' J I 8 #--8 ' -# F2' EF ' 8G8-' 8EH#'

! G# ? 8' F 8+ ' # G8 8-' -F<8+12F 8'

1F#--8 @

: F I#-' <+ <# SFF ' #H#' G FE8 '

&81F J F ' EHF ' 1#2#F ' / 8+G 2#

B C' K' '?358' 22(5 ' . 4e' O' : 4 5'A ' (55=' !'Z ' '5' @ A2'=' ?4' + - ' # ' (@7?' # (5(5(8' B3=?'4' # 4228 C'
K' 7; '?(78' 48) 7; ; 488' ' 4" =5(2?78' 7 ;3(?" <'2'58' (55'8' 99 ' 4 ' '5' O' '45841' 5872(1 ' @4 4 '5('=5'8'
K' = : 475?A' ; (78(' @ =<4; 78 ' '22' ;' = : '' ' (55=' Z- ' " '% 'Z F'] ('(=!' 7; !' @!'ZZ!

" ' ! AB

! !

' ;bU?' ;:bb 3 ;=5bU14
1:';3 ;@7;3 271' F@4 ' F@454)
)F#2 1 ' # 8 ' ' (; ' ## H
' #DDJ ' D)# . ' D) ' 1##@
+G = ' 1 '24 , ' @=;3@#;bbc ' /~ ' 4 ,0 '
; ' P454UP; ' L2b- :
1= ' '5 1 <p bp2 @4@ "454!)

' $+ 82#F ' 4 ' @ 8+ F ' #22F-0'
+#F @ JJ#- -' 2FG8 ' /8 # +F ' " 8 0'
#-' I#+ - @
' 8X ' -F ' ! 28' -<28 E8 8' -# 8'
JF2 @G8 -' -F<8+# +' G8 #8 -#0'
F-' # ' # 8+ # @
' I#8-' #228' J8J#E8+8 ' # ' <+ -2# ' 8 E0'
H8 -8' # <8 F -
X8+J# F-' " 28 # +F ' 18+ J#F ' 22F-0'
+#F
G8 -' 1F# ' 8-8E8-' /8 # +F ' ,KAY

?28 ' ' ? 222#) ' <8# ' ' ' < 8' < @) J ?28h'
#< ' F#<' _< 2
c 8h ' 2 ' D)J D)2 8' #)) D)' 8' J '
2 # H #F' J ' <FJ' ' <D) ' 8JJ' 8
,_ F<J D)K #D)' _' J ' <FJ' # E# 8' <E
9 2 ' 8< F<' ' m ' E' _' #<8 8<' '
' ?<828 E' # E' ' J' E<E 82 ' ' # ' # '
<FE#<' E<< ') ' L' ' J 22E Q'
E JHE# 8' J2FE E' Y< E# ' _' '
8' 8' Y_ E#2E#JH.8 ' << ' 2FE E' ' '
<8E<E# ' , ' <8 #J' !' / G'
' F# <' h # H E#22' #' h <E#+ '
#<' E ' ' ' _2#22 ' <#28#J ' ' hF ' J8 8 '
2E ' 8' 82# ' 8' <# E82' <<'
U28J<E# 8' ' 2E<JE ' 8' h< <JE '
' ? 2J < J2E' E' EJHE ' E' H' 28 F<

9 ' & ' W X ' h 2# E2' ')#)#

8EH#2-' 22 F-' #<-8' J8J# # ' + 8 '
SF E' # J#<# V & ' ' ' ' ' 8 ' +82#SF '
X8+J# F-' EFJ F-' ' H 2E ' 1#2# ' /# G# #'
G8 # ' - F2# ' -#E8-' ' + ' < +I '
1#2# ' F+JH E# ' 8 ' +8-' <+8 # - -' F2 -
9 2 ' /8+GF-##2-' $+FE8 -' 8X' -8'
' 8 ' #-' 1F# ' SF#' 8X-<F8 ' I8 8 '
- 2#I ' 8X' +8' -F ' SF E' J F- ' 1F# ' # F-'
8UF-@ # F-' ! H #' F 80 + G## '
8 ' # F-' 1#2##' 1#2##' 82 HG8 ##' <# ' 2F0'
-8 80 #-' $8 - #F-' !J+# ' &+ GH 0'
E8 -#-' ## ' F- # ' 1 #2#-8' & 2E#'
' + E + H ' 8 ' # # J8J#E# ' 2#2EF-' +#280'
2#8 -#-' # ' F # 8 ' 8 E8 ' /2 F-'
1#2#F-' 822 G#' 1#2##' +F 2## ' <#-J <F-'
88 + 8 -#- ' +# F+ ' 2 +J F-' 1#2#F-'
&+ - #' 8X' ; E#' 2 G# ' E# 8+-F-' '
8 GF-# ' ,K Y
9 2 ' ' J28+#J F ' & 2EF-' # G+8E# F+ , ' Y' _B

B ,C']48 ''1 ' 48 ' @ 842'(1 ' 3=; ' 4:(?4584' (55= ' (4 (4' !' ' ?'4' 9' ' #(2!' 4@ 41:!' ?'4' '= ' 04:?=1(?(4 ' '!4!'
?'4' ('8 ' (55= ' =!' 4 5" 4?3" 22(5' ' 67" 4 5(' ' (55'8' '9' (: ' (55= ' Z !
B C' %'?4' 87@ (' (55!' Z,M ' 65= ' 78 78' =;;'878' 48)'41 ' (55!' Z ' 67= ' (2= ;78' (' 7?4= ' '; '8' 48 ' 4 '
(55!' Z ' 67= ' (2= ;78' < (41 ' @ =@ '71 ' (?'?' ' '4 '8!' 67" 471 ' ?'14 84 75 ' 4 ' (55!' Z ' 67=! '5 58'78' .49'
'; = 71 ' (2 '(?(1 ' 2:(5';(1 ' (8 ('!) s5(4' ?4' :'8' 8; ':' ' '5m4 =578' ('88'1'8' 8;(45" 4 = ':58!
B C' =1:5(2?78' '" .49' 0':4 5'(4 ' <7' ' 7 ;3(?" <'2'=8 ' '(1 ' '" 54@=8 ' 14?'" '=54@=8 ' =5(22" :54@=8'
'!' 4!' =5(22" 0 $ ' 8' 4' 72;' =;'8 ' 7 =54" ?54@=8 ' 4 ' '54@=8' ' <'22" '(1 ' '" @ '1 " .4 '8'
0':41'84!' .4 5(' ' (55'8' 99 ' @ '178' .49' I '(22= 71 ' 4' <(1'2'(' ?4' ' ' '!' 4!' I '(22= 51 ' 78 ('71!

?m< < F#? # s# 8' m2#' << # H#'
H' y2#22' #" 8< ' # 82' ?<# J <
822 # ' J' 8JK# ' ' F#h' # # ' 18'
#J # ' A2 ' 2F + J #<' hF 18 0'
#<8 18' A2 ' ?< #<' ! !')
+ ' < ' 2 # 8 2 ' ?<# 180?m<8 2 ' ?A '
G '@ ' = ' :' ' ~

Z ' # 2!' : @@' :=5<42 ' 34@; ' Z' , 2 5 2&'
' :' 1 !' ;: @ ' :' j ' = ' '224!' JUJIJU'
1 ;' @; <43 ' 1 ;' 4@ '24' 1 ;' 2 '24<47 1 !'
;:' '@ '5& 4 !@ <43 ' ' U ' i ' =@; 5'
1 '@4'<4 : !

_BA' # 2!' 2 I @@' , 2'@4; : '-3' 1 ;' 7 5 ;:' A2:'
4@5 '5!' ='@; :" 454='2' ' ; : !' _' , G'
2:5 ' 2 ' 3' @@!) ;3 2' 1 ;' 1 1 4'
D2!' W 71 : 5' !' , ' _' 2 5<4' 34=@'' ' !'
' @@!' 2C @@' ; '7 ' 1 ;' 25<4 ' 34' A25; &'
@' ; 4!' ;3; <4' UZZ ' @ Z ' 1 ;' , Z !'
2Z' Z pZ@ ' 2 ' :' , 24<4' +#' , ZZ' ' ' ! '
-7Z5' , 2@; @ ;3' Z/Z ' , 2Z?Z; ; : ; Z' D !' 3! @4 1 &'
; ZZ'<4!' . UIU' A24<4: ' G !' 4 1 7Z2' Z@@!' ZZ'
. @ _' @<4!' : @@' _@<4 ;@_; 3' A2: <43' &
24 ; :' Z' 4 ? 2 '<44!' : @@' , 24<4: ' : / :'
1 ;' 2 '<4@ ;3; :' !' =!@!

' 9 ' ' ' ` : @@4@' ; ' : Z' Z:' :Z224<4 @ !'
; :' K)___'<4! ' ZZ' : @4 !' :' !' i ' '
J' /2 18' m ' 4@; 2' _' 4@ 7@' J'
@; ' :!' 2_@4; 3; ; :' 3!' ZZUZZZ ' " '
!' ;3' "4@4<4:ZZZ Z 4 Z 4 Z ZZZZ7@ 4; !'
<4 ' ?'4@ ' ' F' !' A24<4:' , 222 Z'

8E8-' / F+ - G#' 1#22#' 2#2E#' 8G#-' -- 0'
+# 8' 4E8-' 8< #-' 2#2E#' $+ J#<#-' J2#8 0'
82 8' / # JH JH ' # F-' 822 G#' 1#22#' ! 88E## '
E8' G8 8' G# ' 1F# ' #- ' 8' +# J ##-'
-' 2F F 80 J0 #- @ &F E #+8 F-'
-' / +8 -c-' # F+ ' # F-' ! '
+ #' # 0 2#8 -#- ' /2 F-' / 8 2 '
-' - 8+##' E8' 5 - ' / # ' +0'
7'Z8' 8-
9 2 ' +-' # #' 81#c 8 ' 8 ' 2G E#'
1#22#' H - G#' 8G#-' 22# +F ' 8E8-'
1#22#' +J E# ' 1#2 ' / 8+G 2# ' 1#2 ' 828EF # @'
$+ 82#F ' + 018+ E G#8 -8 ' # ' SF ' J8J#E# '
+J ' ! 0 # #+8#E
9 2 ' # F-' +8JH G#' 1#22#' F JH# '
#-' / 8+ 8 ' q ; - # ' 2#8 82 8' / #
JH JH' 8 ' &82 I # # +F ' <8+' -- +#8 -8-@'
H 2EF-' 1#2#F-' / # G #' 8X' # 8'
+ FF-' 8- ' 8 ' / 2 F-0 H8 + ' 8X'
++ G# 8' D9 8++ Y@ # F-' & JHF 8' 1#22#
E G##' JH +8 8@ ! F11 8 # ' G#'
#E# ' 1#22#' 2G E## ' 8G#-' c JH 8'
<8+' 8EHF 0 22 ' # ' S# ' <8+## ' 8E8-'
+ + G#' 1#2##' H8JHE #' 8G#-' +# H 0'
+F ' fE8-' 8EH#' 8G#-' 2#8 82 '
+ +# 8' <FE' " + +E ' # F-' / #+E 0'
J+#JH#' #-' +28J8 -#-' 8 ' 8 HG2# 8 -#- '
F-' 8EH#' 2 #' 1#2##' E+8JH G#' 8G#-'
J# 8
9 2 ' +-' 11 +#J 8' #-- 8' 9 #2E 0'
+8 -#-@ $+ 82#F ¥ & E\+G8 -8' # ' +8G# '
' SF ' J8J#E8+F ' &F G 2F-' 2###F-' / 2 # '
8X' / 8+J 2# 8 ' 8 ' / 8+GF-#F-' 1#2#F-' - #G2# '
+8JH JF-' ' # G' ; #J +' 1F# ' $+ 8
2#F ' ! 8+8EH G#8##-8' <FE?' 9 822- ' # 8+

O $ ' '5' 0 '=5(' 5872(' ' / ' $' ' Z ' 67=' @4 4 '5('=541' 878; 4@4 (' 5 ' '5< (' (?' (55!' '8275'!' 5'
; 24 '; ('' 1 ' ' ' (55=' Z ' '!' 4!' (55=' 4 5" , ?=!' 5 ' '5< (' (?' (5571' '8 5 1 !' # (' ' 1 (57458'8' 65" 4G78' '5'
; '4 '; (7 1 ' '5 4887 1' : '8' 1 4 1 = (' (?' (55!' Z ' 4 ' Z !' %'?4' (55!' Z !' 55" 4 5" 5 7 1 4 (5 7 ' (?' = : ' 7 1 !

/8<GD)#28 1 ' <'_' F# F<JD)JH 8' J 0'
D)#< <' D)' ' D)#<J' _' I)D)8 D)JH J'
: D)2 #GH I2 'H <8 EX) h' I_F#<8D) EJH
J' /8<G)#)' / <J<D)#'H' m 'H' F#<S#8'
h H 9)22 J' ,;2F<JHD)'HDD " ' !'
82# <G' 9'H' _' '
' ' ' ' ' ! ' !'
' 'M F#)#9)#GH' JH h' #' 822' FD)0
2D) h ' hF# h J<D)' I2 'H' ' <#F# '_'
: DD# 8' _2<#D)JH f2 '1;#F#GH8 #2#' D)JH
8J',!' D) 8'_'2Y#' /9)JH<EJH' 2#h 8' D)'
2FJD)#G' J' /# HJH822D)#G' I ' H#' D, 8'
/ ' ' ' <8 ' #228' 820'
G# #' _' ' 82G#-JH' D)22' # '
!

9 2' 2 #hG 8' J' 8+ D)#GH'_2
D)#GH<#' H D)22' ' ' " !
. ' 2 D) ' <<'28<E '2 'HF#' F#<J<#'
D)JH J JH' ' ? !' :J ' 8F#'
8 J8' D) < I28D#J JD) <D)h' J'?<8< D)#28
' : D)#' D)J'_2#28 ' 'D) 9JH' ') !'
hF h ' J' I 2F< D)#28 8' F#' 822' JFE0'
2D) ' D#JHD)2 _'?y2#22'#<8JJ#' <J

EF -' 812! -' # ' SF ' J8J#E8+F ' 8EHF-'
22 ' 1#2#F-' /8+G 2#' 8X' # 8+ #w' 8' ?
F-J JHF-' 1#2#F-' J +#' 8X' + 80'
+# F ',K.Y'8' 8 JHF-'1#2#F-' E 2 G#'
8X' 8< 2F ' +# H #',# 8 Y' F#+8 E0'
H JHF-'1#2#F-' /8+GF-##' 1 + #-' 8X' F+ +8 0'
+F ' & 2EF-'1#2#F-' F+JH E#' I#J +'8+ '
$+w2#F ' I 28' # 8+' 8< 8-' 2#2E#' 8'
" 28 G# -' wJ' SF F +' 822 ' <8 8' #'
F 'w- 8' <8+18J '-F ' #8X' '!F 0'
G# + ',' 'Y' JH8 ' 1#2#' 8 22 JH#'
F 2 8 -#-' +# F+ @ wE8-' &F E +w#'
8G#-' 8< F ' +#F ##'8' J 8 +F '
1# HF-' -' - 8+##' GH #28 -#-'
, ## Y' $+w2#F ' # 8+' 8< 8-' ##'
8' '/# JH+ JH -' E 88 -8-@ # F-'
&2F G#'1#22#' /#EHJH822 G#' 8G#-' 8< F '
##@ F #' + +F ' +8 #' #20'
E82G8 -#-' 8'<+ 12F I#F ' I8 +#- @& 2
EF-'+8G +8'# J#<#
9 2' wE8-' EG 8 #1#2##'& 8 G# 0' _BB'
#-'! G#+8 -#-'& 2EF-' 8X'# 'J28+#J F '
#I#',K_Y' wE8-' 2 #' <#' 8- 8 -#-'
1 J ' ' F+ +##- @ $+w2#F ' 2# JH8 -8'
' SF ' J8J#E#' J +F-' E8' /#G8 8#-'
F-' 8 J + E#' 1#2##' /8+G 2#' E8'
JH 8 -# F-' $+w2#F ' -F2w' EF 0'
+F ' ; JJ +F '#' SF 'J8J#E#'&F E E F-

B -C' 4 '2'?4'6''':58''5'3'8' 55(2':=8'8A@4'<' '145 '=''5;=2A'4 (5' '45 (2'8' 2 =5'A''?4=674'?'; "U '4 '"
67'(' =9' # #' # '8' 5'<';( ) #4 '='541@4&'5'67(' ?1(;2'('8' ('48 !' * ?(15(7'@(88'1!
B C' O" 55(48'4' 55(248'%' !'(?'(55!'Z 'A A' !'Z '5((5' .X 72(8' =5h8';(8' '((5"<'2'" '<';'8
4' 45?(5"<'2'" '52= A'@4 ' O':4 5'(1'@ =@(((8'<7'884'(55='8 ='4' .4 72(8''8 (8'M - '(@@422(5 !' 4 '8'
!' (';'" 141'5''4='84587' =;42'578';!' - Z'4' Z '4' 45?(5" .4 72(1' 8' 4' 24 41' (?37;' 49 (5 41'
141= (' 7; = 'A''@8'58''5' '1= ?!' @!'M M!' %'?4' (55!'846745 48'Z 'Z '4'Z-Z!' 878' (145' ;' ;('
3A;' X1@= ('5=24 ' '49' 45?" ':7 (' @ =' ;;248'(' 4'8;3=2'8' ?1(;3(5'8'4' 4 458':58*67A' =;(:(5 7'
; #' # '4' #' ' <''!'4!' 8'@45?'(' (';'"4' =271:A'67A'('8A;72=' ''"8=2 4:(5 7'78674'(?'
(? 45 71' 5 2= 71!' U
B ZC' 4' =5('?='3=;''8 '78'5=1'5'8' 4 '=!' .4 4' O':45''A' '?4' ((2= 51'5=8 71' .4 71' 3 '8 '(5= 71'
O':4 5'A''5' .4 !'O': ' ! ' @!' #7545@!' @!' 999'''4'87@ (' (?' (55!'Z '4''5< ('Z !

ABK " ' !

'8 J' _2p'27bU'5' ';7245!' U=@;:4' J m J Y#FD)#hH' :=5' :4'J!' ' ;35U<7U'5' ' ' _' ' 2C< 45bU'5:' ' ' *U4@ C[1 4' 82#' < ' ' YJDI# ' /8 F p' 8' 2 D)# ' FJ2 # H') 22'<':' ' ' 5bU:3' ;bU ' bU1' :='D ;34' ' bU'1L' ' F@#U;3 '?!' 8' c28 E' < # ' < ' 2 ' _' # ' D)# #I#' D)J ' 8' Y2#8D) #2' < ' D)JH' #' I_ #2' <' 1# ' 2 ' #' 1 7'@' :=' ;7 1 ' ;'<'4' _' S ' #9J2W)' ='@' # ' ;1 :' _' ' 7'5 4' '5' bU;:' H#9J #2' :':' _' D'7;bU::' @#U;bU'2' :':' J ' D bU':4' U#' 4 2geE2s' :!;3'U'@' @'' D 4' #U5b'!

_B. 92' & ' ' # ' ' _' G' ' " ' ' ' !' ?< <D) D) ' M2 ' 2FD) ' 9 ' 2 #D##< ' , ' _' $ (' 2FD) D)' # <# #' F E# 8' ' <#D)8 D)#J ' ?c2 ' 2 # #028#<8' ' D)E# #J ' ' F#<J<#' _' D#' ' D)#<<JD)' D)2' 8' #8 - ' " ' ' _' FJ -)2J' 8' ' D)JHF D)# ' # " ' " ' _?' !' JHD##22' 8' :J D)#<' _' 0?c2#22' ' D)JHD)0' D)# ' ' #1' 8J ' DD# hD) F22' # _ 2' !' D) ' D)#22' #^ 2J8D)# ' , !' D)? 4 # #eD)82,) ' K !' #22#8F#2 ' #181 +- ' ' 8<JD)# 8' ?A2 ' # 8' 822#

1#2# -' F+G 2c ' E8' ' 8 22 G##-' 22 8 0' -# F-' H 2EF-' 8 ' 2#2EF-' # 8+18J # -F @ 8E8-' 1#22#' 2F F#' # ' E ' #228 # ' ; - # ' +8G# #-' +J + 8' -8J E ' I #J8 ' 8X # + #' 1#22#' + #1#J#-' 8 ' 8X' +8 E #' -# F2' <+ < G ' <8+' /8+GF-#F ' 8G8 ' J# 8 ' ,' ? Y' # F-' /8+GF-##' 1#22#' ' #0 F 2 #G ' ! <#8 #-' -#G 8' 8 ' #+ #28' <+ E#G#F ' #18- F ' # ' +8G# 8' #+JH8 +F ' 8 < +8' /# JH # ' 1#2[' 8EH#' /#2 -# ' 8G#-' 2#E#-8 ' 8 ' 8 < +8' JH#' 1#22#' +8- 22#' 8G#-' JH +F ' # ' 8 ' 8 F ' 8U8J# ' +8' # ' 8++ ' # ' JFUF-' J <# 8' +8-' # 8+] ' E8 8-' F+8# ' . ?' F J# +F ' < E ' SF#2# 8 ' E8 -' 8 ' < -# F-' 8+ ' F F-' 8 +F ',# ' 2 # 8 Y' -F<+ ' 2 +8' - 8+# ' 8 JH +8 -#-' -< # ' ' E#J

92 ' ' J 8' -#G F ' H ++# #28' 8 ' #+ #28' I#-F ' 8- ' # ' - 822#-' ,KLY' / + E F-' -' 2F #+ +E8 -#-' ## ' 8 ' G - F-' 8 +8 ' 2F 0 # + E8 -#-' 8 ' F 0' # 8F-' ' F8 #JH ' -' 0 8+8 -#-' + F#' -F ' $+ 82#F ' # 8+' 8< 8-' F+ +8#' 8 ' + 8+# -' G 2F-' 1#2#F-' JHF#G#' I#J +' 8+ ' 8 ' FJ G 2 ' 1#2#F-' ' H - G#' 1FG# #IF-' 8I -# ' 8 ' J8J#E8+F ' JH #22F-' 1#2#F-' J +#' 8 ' 2#2EF-' ' H - #G ' ' # -F2 ' # 8+' EF -' +8G# 8-' & F22)' G8- F ' 8- ' <+ 82#F ' #- FE ' # F-' 2 ' +# # #' I8+ #J#-' !J+# 8' # F-' # 1 80' 2 E##' $+# J#<#-' #22JF22# 8 -#-' +-' 1#22#' 18+ G-8# ' #-' & F-' 82#J#

B C' (3(2?78' '' 4?('<'2'78' .49' 9'9' 3 '8 '(578' =55(;'(4' =:'' ' G79 (' %' (!'(55=' Z ' 4=?41' 541@4' (55=' 67=' 4; 3(;378' 4@=8' ''5;' (?' + # ' 79' '(;3 (;2'= 71!) (2'(2?=' 35';' 87;;488' '99!' ! ' $ ' 5? 4;3 (;3' <''''8' 67' =:'' ' G79 (' 4=8?41 ' (55=' Z Z!' =?3=' 87;;488' '99'!' . #- ' <'2'78' 4(22(;3' ?4' 67=' 87@ (' '7' 49 7!' :'' ' '8 ' G79 (' 4=?41 ' (55=' Z-) 4' 4 4' 8' 4' .4 72(' (';'' ' '?4' (55=8' Z Z ' Z- ' 4 ' Z-Z!
B MC' : =5!' (9=5 ' (?' (55!' Z ' '567') K' O=;' (55=' 8 422T' ' 41 ' ?4' ;=42=' < 46745 48' ?X;'?4 =5 !!'

! ! _BK

9 ') ' I# ##D)#J
U F ' &E ' C 5-)B ' 2I# EJ2#9#.H' &+ 0'
J ##\-' A/ d '" ' ! !' ? 2U# H#' # ' 1##F# ' # '
:4U;4'@;' 2bU' +U4@ 7@!' CbU Z' CZ2 ' 5@?' '
#22#D)JHD)#KH K<F## < +HD)' ?m<#H. D)2 2#< #< '
>) ' F# D) # 8HK' H2Y8JJD)# ')2 2FD) D)'
H' # ' .28 F<D#' 8' #<<D)#K8' A2
2FD) D)' < JD)' V w' #D)2S## ' 2# '
.) _' I28 H8' !! D)<<' \JHJ F1 # '
8' 2 D2 m ' H' 8 <82@ D)<[E H'
h H D)#.H' <D)SF)#JJ' F#' F# # H2' J<FJ#'
#)JH <D)J E' F22#' <#D)' H' D) JD) H H#' + <0'
JHDD#<' DD< ' 8' qm<9)JH<D)JH 8' JH' D)'
h8<<#' # ' D)#<' 8' # H#<

9 2' # F-' + J#' <#-J <#' E#' +#0'
8 -#- @00 # F-' JH 2##' +E JH8 -#-'
&+ J 8-' # 'J#82 ' I#-#' -F ' ! + G8-' ' +#F0'
+F ' ##- + 2#F '<8+' /8+GF-#F ' # F-'
82 1 G#' #22 JH E8 -#-') G ',# 8 '
22#-' 2 G#Y' /# G 2F-' #- +8 -#-',SF#8I# Y'
F-' &F E #+8 #' ' 8JJ ' #-
2F 08 #-8 -#- 00000 # F-' 8 GF-##' 1#2##
+#E#' #-' 2F 18#E 8' E #' 8 '
2 +#G#F-' -' "2 --?@ @ 8EH8 -#-'
+ FF-' 8- ' +-' !8JH F- G#' 1#2##' 2G 2#'
8G#-' 8< F ' 8 -82 G#^' ;# 28 '-< 2#0'
' & # #J-8' JJ28-# ' $ +#J## ' !8X'
< * F2 '-F-<8 -#' ,#E8 Y' $+ 82#F# ' F #0'
8 #' F22#' G8- F ' JF ' 8H E '
' SF ' JJ#-F-' 8- ' +GF-' 1#2 -' /# JH0'
+ JH#' # ' <V2FE8' &8-# +F ' # ' +8G# 8 '
J0I#E#+

9 2^' U;2 <<' ? 2# #82' ?y2 ' 2# 28D)JHD)'
D) ' I_ F#<8D) H9# H' H' 28#JH' H#' JF#'
JF D)#<J' 2D)' H' 22040 FDD ' .)# 8') '
;2F# H8' #28' ' y28 H' I; F# 8< ' 8'
<#D##JH 8<+D)#GH' !' # ' FD)#<JJ' !V '
8JH F<D#8H' 8' 82 DD' !' E# 8 ' '8< D0
D)#<' #r @ F## # 8' ' !' c2F0'
D) ' 8' 2'K ' '? " @'
#) ' D)<D) ' ' 8 JHD)#<@ ('4 # # '
D:#<2#G#' D)JH' #)#< '?22#2JH8' E' 1;2F 0'
E# ' '?' !' 8E#<<<8' 8') # #<8' ' '
FEJHE2E# ' ?22 <# ' I_ E# H'
228 HE' F# ' 8' EJHE#20) 7 d* '
E ' <82# # <#' #' # ' m #<' ' < -E ' '
e '?<8E< E8<#JH' hE#<# <#' E<')F 0'
E#28' ' E###G ' EJH' <#E' ' 8HE H

9 2' +-' 82' #-' 28J8 -#-' _B_
- 8+# ' & G7 ! * ' F+T0'
E G#' 8< #-' 8# H' # ' F20 -J'
<8+' %2#E# -' F F-' "2# 8 -#-' -'
' # G' '' ,#' T' - 8+# ' J <#'
+ +#-' - J+#Y' +# i+' /#2#F-' 8EH#' F1#'
1#2' /2 H8+ G#' 8X' -8< 8 +# #-' +# F+'
!8JH F- JHF-' 1#2#F-' 2G #' 8X' G8 #0'
8 -#F ' F- + 2#-' " +#W' ## ' F # 8F-
- <#8 -' ## 400000 F F-' 1#2#F-' 2 F#
$ 8 ' < # F-' S #8I# ',_ Y' # F-' ! 0'
+ #' #-' 8 JH +8 -#- @ # F-' E #0'
G##' , #-Y' -2#G8 -#-@+$+ 82#F ' + 0'
2J 8 -8' G8- F ' ' #8 -# F-' # 'SF '
J8J#E# ' + +8F-' 1#2#F-' E# -JH#@ +-'
F H 2 #' #-' # +#G#8 -#-' - 8+# '
G##' #8E8-' 8EH#' #G+#' 1#2##' 2H 2E#

ABC " ' !

' J

#' J <J*)#<' D)#<<<8' _' /8U# F#0' _' *)#JH8<'
8' F F<J<D)# '_' " ' # '28

F-' #' 82#G# -#' #'8' #' '
,H E#8' -J Y' ## ' : F#8-' /8+E 0'
J+#JH#' -F2-8' : F8+JFF @ # F-' FEG 2#'
8' G8 #8E-# F-' $+-82#F ' G8- F ' JF '
JH E '#'S ' JJ#-#' -F ' + +8F-'8'
/8+GF-#F-'8' H#+#F-'1#2#F-' F -J+ G##'8'
XI#' 8G8-'JF '8#-',_ Y

_BC ' D) F')9)E#<' 8'
U; F#J# <#' <8' HD)#28' : #8W FD) ' !'
!' ' ' # '
' ' ' ' ' !' '
, '_' ' ' ' G'
' !

9 2' &8 8+-#' /# JH+#' 1#2##' " + #'
#-' - 8+##' -F2-8' $ +J +F '<8+'
2#8 *G8 -' ,_AY' : F#8-' "F #' JF+I#'
! <#8 #-' #X'NJ' ' ' !

2 #<8JHJD)JH' H' F) 'I2#' #D# <D)' !'
) 'h # J' ' !'
2FD) 9)' H' <D)#<h' _' #228' D)<D)' h JF 9)J'
'? A " !' JD)JH' 'mB8J2D) #'
$ ' (' I_ F#<8D) #' #' H820'
2D)# H' FD)2D) ' # 'H' 2< D)2' !' * '
D)#2 8' 8J ' :7,/(' 77>7('DZW ' mB' +F)'
'?22#<J#<' 'I2D)JH8<J2D) +#' 2DD' h ' ' 8' '
<8D)JD) ' 28X' ' FD# 9# H' < <' 28D)J '
F @))2D) ' q< #< JH8' 8') D)<J9#GH'
FJ)' ' 2#2JHD)J'! !' D)#<8J8

E+8J2# JH' ' # G' 8X' # JH w'
+# F+' # F-' & E# J#' JH +8 8'
#-' 2F #+ +E#w @)& JF JF-' !
<#8 -' SF#8I# @ 2 J F-' -' 8JH+ 0'
8 -#-', ## fY' F#+8 '1#2#' 22 G#' F 0'
2 8 -#-' 8G# ' +G 2#w' +# F+' JJ#-#'
G 2#' 1#2##' J #G#' 3]K ' m' ' 8G#-
+ 8+# +F ' < E' H8-J2 ' <8+' & 0'
F '1#2#F ' #',I82' #Y' +# F @'
8X' 8< F ' !F G#' <+ < G ' <8+'
&# #E#F ' #' ,#8' <8+' E# #E#F ' -8<
8 +# 28' # 8+ #w' #F-Y',_ Y' /2 0'
F-' ; - +' 1#2#F-' / G + G#' F F-

BZ C' 5558'Z ''5' 57(2!' 2!''5;'@''7'(5578'Z Z''5' ' 4 5(; =' (' =;':58' K' + #'!$ KsB' (5 ';'@(5' 45'1' ;(1';='5'(55=' 75=!' r' 27;'@'75'?48; ':4 4'(5571'Z Z' (' =;4' '78674'(?'<'541'(55" '8 '78' @ =7' 49 (' 87@ (' '5' ' 4 5(;3=' (55='Z !' 4'5?4' '5;'@'75' (5571'Z ' @ (4;'84' 7' '5' !' =?24'(5=' ' 4 5(;3'' (' =;4' K' 7 52('=!Q' 4; = 41' 1=5' 71' 42'1' 14' 1= 41' 488'884' 55(2':78' 2 =5!' @ =@ 4' ('=548' @=8 4(' (<<4 45?(8'4'(5571'Z ''5' 1('54'(@@=87'884'4 8"5= (' #2!' ?48'' '5' =?';4' 7' = ?=' 3 =2= ';78' 84 (4 7 !' 3((; 4 41' '5;'@'45 '8'(55" / '=1'8871'@7 ='54 2' 45 '(' 1(57458'8' '5' =?';4' =?24'(5=!' %'?4' '5< (' (?' (55!'Z ' @!', M!' 55(248' 2!' ' 4 5(;371'7:'674'(55=' 75=' @ (4;4?75 !

BZ,C' '7;&'5'8'@45'5872(' 48' '5' =55(;'(' '5' 4 '=54' ?4' (2 4'8!' ! 3(71!' @!' '- !' s7 4 45?7 (*4 '' 5 71'(2'45p 45(8' '8 "<74 '5' (5'' 65= 51'@ '171' '5' O':4 5'(1' '5 48871' 4<4 '@4 @4 (1' 2(34 478' (?' (55!'ZM-' @(!' '~ .4@7 5(4' '?4 7'67=?'@45'5872(' '8 ('5=5' '5'= '8' =55(;'84' 1(''128'8' (' 8' ' 84?' '5' (;7' #\#-@ #-' # '7' '5'%' (' !' ((55(5'';!'Z' 4''5' (L =2= '=' (12(; ''5' ' !' !' @!' M' 5!', !) (4 5' (7 41''@84' 2(34 478' (5=8' O':4 5'(1' '5 (8'884' 4 5(5 4' .4 4' O':4 5'J' =5('?=' ''"*67" =:'' ' (55='Z !)' 4' 2'45' 45'8'' (674!' (5=8'<7'884' =@'5= '67" M '4' O ' @ =1'8;74'(@@422(5 5' '5' 55(2':78' O':41';'8 !' (' 14?'=' 8(4;72=' '''!' %'?4' (55!'Z-,''5< (!

BZ C' %'?4' 87@ (' 5= (8' (?' (57=8' Z '4' '4'Z-Z' '5< (!

Ry2+ # ' 2# ' ?m<#DD8H' ; ' 8 <J' "
' ' " ' ! ' ' " ' !

9 2 ' ; # ' D)J2#9Y?D)# ' 8' I '
F#E #8 ' ' I2DD #J2# Y8J2#8D)JH' ' '
s 8 D)#2 8' 2GD) ' y2 ' ?<8< #E ' D)1I+'
' ' h#)# # 8' I ' H ' I_ D## 8' / '
2FD) # ' ?<8<J)' U 8+g) ' ' ' ## F# '
8' DD8 D)# 2# ' D)JH q 2#\X)' JHD) D)' ' á
!' ? 2#22 ' 8' F# D)Jm #JH' ' J2 # <DD8O
' !' ' !' h #9)22' B ' # 9) ' '
O<I J2# F ' JD)J2#D)' ! !' ' ' ? ' " '
!' F+# D)2 8' ? 21 D)2 D)# H " '
!' D)#1 <<8' 8' 1 ; F<82#EhHW)' , #h2## '
_' 8J ' D)#28' 8' D)JH _' 2# ' q # ' 1_ F# #
#22 ' _' " ' # V) ' R'
8D)' ' ' #9)#22 _2 ' FD) D)
' ' ' ' 8+# # D)#<<<8' ' 8'
#9) J ' ' ' 8 8 ' J2D)<D)#

9 2 ' / '))# 9' ' _' / '
9)# ' m2D)J<D)#J8' D)# ' FD)#<2# ' <'
) H)#< ' e ' F E' <' M2#< 0'
; - B#(p)JH 8J ' K ' _' 8 '
!' !' 2 < D)' 8' 8< F D)' _' <D)0
JHD)#+' _' 9< <#JJD)< D)J ' ##+F)#228' <# '
D)J D)2 I ; D)8 F# 2#8' I2 ' + + 8' ' '

JH +8 ' 2#2J JH' +#F F+ ' $+w2#F '
; E#' '/# JH+ JH +F ' ! + G8-' G8 #0'
8 -#F ' # #' I 8-' # ' 8+8' I#--8' -F ' JF '
I#+#-' -F#- ' ,_BY
9 2 ' ##GF2 # ' H - GH#' 1#2##' 2#2E#' _BL
TG#-' $#J +F ' # ' F # 8 ' 8 H80'
JH ' ,_.Y' +-' $+8- 2#' 1#2##' 2G #'
1#-' / 8+ 8 -#- ' +-' 2#2E#' ' & #0'
8' 8G#-' #' # +F ' F- c '
2F 18+ w' +8 E #' +-' FG#'
1#2##' 8 G# ' $+w2#F ' +EJ# JH w' # '
SF ' J8J#E# ' 2#2EF-' 1#2#F-' &F E J+# JH# '
JJ#-F-' ' <+ <+# ' J2#8 82 ' # ' SF ' J8J#E# '
& 2EF-' 1#2# -' # E #' # ' #<- ' J G+8--F'
<+w2## ' # ' 8 ' 8X' SF#' I#J# ' <+#F-@ &F 0'
G 2F-' 1c F-' 2G E##' I#J +' 8+ @ +0'
+8F-' 1#2#F-' F+JH E#' #E8 -#-' +# F+ '
8 ' 8JJF-' <<#E#' 1#2# +F ' JH# ' 8 ' # 8+#F-'
-' G #28 -#- ' #8+ @0 ; 8 F-'
G -' &8 8+-# ' JH +F ' ##8 0'
-#F ' +-' 22#' #-' % G'
/ !' +-' ! <#8 #-' 8' J2#8 82 ' +0'
+8# ' # ' 8 ' 1#2## " F JH# ' +-' ! 8G8 #'
2 + G#8 -#-
9 2 ' F- c ' - 8+##' / H +8 0' _ .
-#- ' 8 ' & # #Jw' JJ28-#w' ! ' $ +cJ## '
F- ' ! F +2#G#' <#-J <#' / H +8 -#- '
: F#8-' GF- #' < #' +E JH # ' $+w2#F '
8+' $#J -' 8 ' +# 8- ' #E' 8- ' 2 +G 0'
F-' 1#2#F-' / 8+GF-## ' 8 ' 8UF-' 1+ 8+ ' 8 ' - + G8-'
$#J +F ' -# F2' JF ' 8 ' H 2EF-' 8 0

B C' s5(4' 5((5 7 ' (' ' 4 5(; 3=' 87 :' 75=' (55=' Z Z' ?'L E 75 7 ' '5' 55(2!' 2 : '5' ?7=8' (55=8' Z ' 4 ' Z Z'
4 ' (5578' 2 =5R458'5 1 ' Z ' '5 ; '@' ' 7 ' '5' !' ' 4 5(; 3' ' (' = ; ' : 58' K' ; - ' - B' 1 @4 ' 58' 54 1 @4'
1 (57458'8' =?'4'8' =?24'(5" = 1 '8' ' 757 1 ' ; 3((; 4 4 1 ' #2 ' 67=' (55" '8 " '5' 4 78 ' = 4' =?' ; 4' ?' '?4 : (5 5 !'
7@@245?=' 3((; 4 4 1 ' '8 7 1 ' = 1 5'(' 4 ; =' = ?'54' @ ==4?75 !' %'?4' 87@ (' @(!' , ' 5!' Z !
BZ-C' (' '8' . 49' ' ; =5' 1 ' 0 ' : 4 5'84 ' 67" 3= ; ' 8(4 ; 72=' 4 ' 884 ; 7D=' @54 ; 4?45 4 ' 5= 1 '5(' 0 ' : 4 5' ; (' (887 1 @84 75 !'
=8 (5 ' (2= ; (5 ' 7?' ' 4 ; (5 ' 4 ' 8' 1 '2'(' 875 ' '4 ' ; (N' 84?' 5= 1 '5(' 0 ' : 4 5' ; (' . #- ' 4 ' ! - ' 1 (24?4 = &'
6545 5 ' 8 ; ' : 45?=' ` #- ' 4 ' 6 - ' -' 4 ' ! 6 ' 875 ' " ' 0 ' : 4 5' ; (!

!

7':'9U24?'4 7bU

:2 ?5 mU;' '54' =':::45bU' <U27'&;@?':34' '5! ,! <\;' C415bU'22" : K':'@=@' !' 'C7'::bU:='@455' m H *U'8455(' _ _2 0 ; :3bU D2!':!' 27U b''5!' '5bU'@4;' 5:&@' r;7bU'; @'bU 5' * 25'5;:'U::' 14' s;4@;'U!

9 2' FD) ## ' _2 ' 28#J ' `+8@ #D) '

_. ' 9# 8' m ' H ?m<D)#2G8' `+8'2 J2D)# 8'- <`8+8W ' ? ?m<8< I' 8' q< D)<JD)# ' ; !' h8<JJ' <8D) H `+8' / , '28J D)#<28' 2F D)' '2<D)#< ' ' 'g ' ' J ' #22#0' J # D)#' ' ' 828' F2< ' h#)# # #) ' ' ' 2# D) ' D# ' <8+D) ' 8'q)<#)82 # ' _2 ' q$ # 8' _' <D) ' 8' hF# <28# #' ?A ' 2F 08d#<' ' ')F<< 'q 2 '288 8' I_ # H#' _' 1; D)#28# <J F#< <<' D)8H < ' D)< 1 F#< #F<E' 8')8< #<DD' m ' ' h8#<8' _' 8' 2F# 8 ' 2#< #<' _'?<#D) ' q< <J<# ` !' <8 2D)# #

_.A' ' ' #228' h< #8 ' 2 8D)' D)F E< 8' #28' m ' E' 2 J D) DD)# ' D)+ D)2 8') <D) 9# ' A2 ' #228 D2< ' ## 8' ' 8J88' # H ' ' ' A' !!@ D)J ' <<8#JH' !' ! ' K ' !' " ' ' i !' <F# H#' 8' _2D)828 ' ' ' h#J 22D)' 8' ;28#9)# # _2 ' <' I_ F#<8D) 9#.2#' ' '?m<#D)8 ' ' J0D2)#D) ' _2 ' 2FD) <8<JD#' <8 D) ' ?m<# #J 0JD)JH' 8' <#2#' ' I2 ' 8 8 #2' #<<<8' ' 2 <D)8 JD)J ' 8' I_ F#<8D)0 # H' ' '?m< # ' 8' ?m<D)22 D)# ' m ' D)#228' 1;#F#<J 8# 8' ' D)<< #22 8' 8' - 2#' # ' #' ? ' ' hF# F ' I2 ' D)#<<<8' 8<JHD ' ' D)<< 1;2D)#28JF#28

#8 -#-' 8X' #' #w' +# F+' +-' &F E 28 H8#' '" + #1 8' #-' #22#-J#0' +8##-#-' 2 H JF-' 1#2#F-' E G#' 8X' F-J+ G# -' + FF-' 8- ' / #2#F-' 8 22#' -' #+ +F ' +# F+' +-' &F E # 0' 8+8 #' 8G#-' / #G8 # +F ' 8 ' JH 0' Ew#' 8G#-' # +F ' $+w2#F ' -F2-8' !F #J' JF ' JH E ' 1#2# ' J8+J 8

9 2' F GF-' -' 8 8 -#-' +# F+' / 2 F-' ' G #28' 8X' #' / 2G8 +F ' +# F+ ^' -J2 G#F-' - <#8 -' +# F+' / 8+GF-#F-' 1#2' / G + G#' 8X' F- + 2#-' +8G#w' +# F+' F- # ' E# #E##' 2F #0' + +E#w' # ' ' +-' JH E##' E8' #20' ' +-' 828EF2-##' & H# #- 8 -#-' +-' 2 #' +# F ' 1#22#' / 82 #' #-' !2 #w ' 8 ' + #' 1#2##' &F -28 ##' #-' 2F 8 #- ' +-' / F+-8#' #-' 8J 8 -#-' - 8+##' # ' #E# ' 8 ' #280' +JF+##' < #' JHE+ 8 -#-' # F-' F+G#-##' 1#2##' / 8+GF-##' 8G#-' &8-# +F ' 8 ' 1#2##' FG#E#' #- +8 -#-' 8 ' / 2 #' / +0' +8 -#-' 8G#-' +J 2 E##

9 2' +-' #228#' &+ J #G8 -#-' J 0' +8? w' ##8 -#-' FE +' 1#2#F-' #2#' 8X' & +F ' 2EF-' 1#2#F-' / + E #' -' #22E +\ -#-' ' 8JJ8' 82#G# -F-' J ' , ' F-fY' + F# -F ' $+w2#F <#' < 2FE -# #H' 8++ ' #+J# ',fY # 8+' $#J -' # I#J8 ' # ' SF ' J8J#E# ' +FE8F-' 1#2#F-' 82J #' +-' &#J 22w#' 1#2## 8 E##' #-' - 8+##' -F2w' F+8E G#' +-' / # JH #' ' J0 # EH' #-' 2F 18+ w' 6 +8 E #' / 2 # H 8+]JHF-' 1#2#F-' 22#' < +I#' 8X' 2#8 82w' + +8#' +# F+' E+8 JH JHF-' 1#2#F-' F+8E G#' < +I# ' 1#2' / E # #' 1#2' / 22 #' 8G#-' 22#w' +# # w ' , +# F+ Y' +-

" ' ! A.

! !

y2 ' #U#818D)G2)' ' ' 7I I D)#' G'
R' w' !' #)# ')#8#)#' ' '
I28J J n D)|' H' F #m 8' 2 ' FD) F)'
@' 5:' $ ' 422 '-:' !' 7U;G7U'::" 1!

9 ' + ' , !') ' 8'
#J8 2#' ?A2 ' >#mU #<' e ' 2FJHU #hH'
h8' J 1#J 2# ' ?A2 ' 2 J # ##4' ' J2 # '
#22#' 'h H 22' #hH#' ' ' 822 #- '
U2 ' 2 0<8U + ' Y<8 ' ' ' J N2p# '
hF# 28JH 2 #I #' ' #')#U 2 #' 8'
' !' ! ' !' 6 2#22 ' 2
U 8 1# #hH8' ' JD) #h2 #+#8' 2F #' #0
m 8 '' ' c D)0 J0Ds)8#Y#J
2+D)# H' 8' #28JF#28' M) 1#
J ' 0< 2 ' 0< #' # ' 81J ' ' 2 ' U80

9 2' +#J D)#1# m ' F#- 8
' 8#' ' ' ' i + '@ j E' E# #2'
' # !' 2 #0B J ' 8' >D)#a 0'
X # ' 4' 8 \ #2' J#2#' !' f' b7 f o' 'm'
8' ,'28D)' ' ,! '"@ !' e '
8< # ' # 2# ' a'$a 4a
+@4' P: '2 '3' @@'U'P:'!' ;:' P2'@P'' 6*;'5

#228 ##' #c2##' G 2#' # ' # @ 0'
G#F-@ '&F EF#F' 8X' +H+#w' 81#!8 -#-'
+# F+' # F-' 82 F2##' #-' #+E 0'
G2 --8 -#-' +-' - + #' JH +8 w' 8'
< -' 2F ' +8 8 -#-' +-' 8J 0'
+ E#' '" F #+8' #-' - 8+##' 22#-'
! 2#-' / 2 F-' 1#2#F-' 8 22 G#' 8X' F-0'
J+ E#w' +# F+
9 2' ! 2' 8 8 + -F-',_KY' # F-' 1#22#' 0' _. '
J8EH#' #-' #- +8 -#- @ : F#8-' FJH0'
+ E##' E8' +J 2 G##-' #-' 2F w' J'
< #-' 8X' 2F -' #228' <+ < G ' <8+'
& 22F ' 8G8 ' #E#w' D__Y' +-'
8 22 G#' #-' 2F w18+ w' +8 E #
+-' ! J F2 #' &F 8 -#-' 1- # +-'
/ #+ 2 #' 1#2##' 8 GF-##' - <#8 #-' 8+0'
18J # ' 2#2E#' ' " +8G+ E##-' +-' ! J 2 #'
2F 0 +8 E8 -#-' +-' / F+-w#' 0'
+ J w' 1#2# +F ' +J#',_CY' wE8-' 20'
G#' 1#2##' 82 F2##@ ! + G8-' / H + +F '
2 +8' ! GF# 8 ' - 11F- ' 8- ' F ' H J'
',_LY
9 2' / 2 F-' 1#2#F-' J +#' 8X' <#' _.B'
' U0 FF-' 8- ' +-' F w' <F2JH+w'
1#2#w' H 2E#') G ' 2# G\ # T#' G0'
-8 JHF-' 1#2#F-' / 2 8+ G#' 8X' J2#8 82w' 0'
22#' + FF-' 8- ' 1 -' !28 # 8F-
-' ##8 -#-' # ' 2 8+ # ' I8 #
: F#8-' 8+ #' & 2# G8F-#-' ; -1 #

BZ C' 79 (';h2;72=8' 8 =5u1';=8'7' =1=' 1=' @4 '8' K' I '?4' 4 '<'4 ' 248' ?(48 Q' ;2'@8'8' =2'8 '5;'?''
(55=' Z- ' '5' ?'41' M' (5!' $ # '9" (5 4' 14 '?'41 ' 5 =@A' ;45 (2'8!' (5?41' 5= (5' 55(2!' 2 !' 84?' (?' (55!'
Z-,' 67'(' A ((' ;=1!' (5 ';'@(5 ' (55=' 75=!' 4?' '?4' 87@ (' (57=8!
BZZC' 4' =5(;3= 71' #4 72'8' (' . 4 ':78' 5=8 '8' (?' <4 =8' @=@'' = 7 ' 1= 48' 4< A5(5?=8' @ =@(('8' 8A@4'
<' 145 '=' '5' 55(2':78!' 0';' (7 41' (' 7 ' ?4' 48' 45?=' ':7 = ' 7 ' 87@ (' @!',- '5' !' 2'(' %' (!' (?' (55&'
,,' K' 49' !' (';'" @4 ' 4?32'1'71'; '1 3(5" <'2'51' =1=5'^' . 4 4 @' 4 '@4 ' ' '71' @!' ?1(;3(571 '
K' @4 ' =1=5'(1' @ =@5 (7 !Q
BZ C' #41@4' '5' <2(1'54' 7422'A' @ =@4' 3=?'4 5(1' 45';((5'!' *
BZMC' 9';(2;(2'8' ?7A' ;2'@848' 57A' '5;'?4 4' 3=;' (55=' '5' ?'41', ' (5!' 4 ' '5', ' 72''!' '?4' 4 !' 248' (4T'
! '@!' !

A.A " ' !

8J' H'#' 1##F #_' 8 82' #<<1#' ' ' G'
' !' ' 'M2 #82'ygHE' D)8'
D)JH 8J' 2' F#<J<#' " !')8<-F '
m2 ' J' 822'm ' 2q # !

_.. 92' qm<# #E# #D) H J' FJ29)#-H' U' '
8#J ' ' / , ' 2FD)<D) J #<
' nU' J !' !' ')F)J <' <J<E#-8'
q<82J D)#<8' J' D)#22' FD)JHD#2' J'
' #D)< D)JD)' J' 2FJ D) ' m ' ' 9# 8' <
!' qm<2D)#J #F' J' ?<#E# ' H' J D)#<
12' ' /D)#2 8' J' D)#28JFD)<9 ' M2 '
#< <# 8' < <'2 J ' 12#' J' 12 #J ' '
J8 82' D##<<<8'q1' 8JJ 8<J'q 2' '_28 < D)'
' ? ' /# # 8' ' F D) H4'
D)J' H# D) <D) ' #' J <JE#<' D) JD4I '
' /8< D)#28' 2 <J ' 2FD) D) #<' ' '
J !'

_.K 92' / , ' 2YJ D)#<' #<' ' '
K !' /8D)< F<' J' J8D)22' 12' 0'
F)J J' @) 282 D)2' ' 2FD) D)'
< D)J' J' /D)82 ' ' #2 8' /<D) D)'
<<' 8JF#<J<F# ' E8J D)2D)JH J' 20'
E# ' ')F# 8' ' J JD)<F# ' !' !'
#FD) 8 '2 8 '2D)'h D)22' J' F<0'
J D) ' <<#D!')#D)22' J D)JH <' F '
F#<J 8# 8')D)F<<D) F 'h82 D#' < <

/ H + +F ' #-' ' -- +#8 -# F-' $+ 0'
2#F ' +E #-J# 8 -8' # 8+' #0 +#F # -'8'
J2#8 82 ' + +8#' # ' SF ' J8J#E8+F '
F2#' +-' 82' -8+#' I E#' #'
$+ 82#F '# 8+' #' F+ +# -'# I#J8 ' /8+0'
GF-#F-0/82#X' 1#2#F-' 8 22 JH#' 8X' 0'
J# 8'+8G ',C Y
92' /2 H # EF-' #c2#F-' F H G#' 8X'
8# H +F ' +# F+' F- # ' 2F 80'
J0 #-' >;' 92' <+##' +-' /# JH+ #'
+ +#-' /82J +F-'1#2#F-' G 22#' F 0'
H 2#F-'1#2#F-'&# + # ##' 1#2##' &2F H G#' 8X'
#' # +F ' J# 8' +#F F+@'
/2 H # -'1#2#F-' /2 F#' ' J +' 8X'
#' / 2G# 8' + FF-' 8- ' 82JF+ G#F-'
-' -8+##' #-0 01# E8' # ' JF'
#GH' /#2#F-' J #'E8'J2#8 82 ' + +8 '
! 8 JH8- F-' -' +# 8 -#-' + F#'
-F ' 8SF#8-' /#E 8#' '!F #G'
$+-82#F ' # E + E8 -8' # ' SF ' JJ#-F-'
8- ' E J EHF-'1#2#F-' /8+G 2#' F- # '
2F -8' J' #-'X##' E#8' 9 2' <+##',C Y
92' F- # ' 8 JH +# 8' E#8' 18+# 8'
!'$ +#J##' /8+GF-#F-'1#2#F-' 8 22 G#' 8X'
J# 8' +# F+' ,CAY' 82G 2F-' U# 0'
JH +8 ' 2F 8 -#-' + JF-'1#2#F-' / 80
2 #' '!#2 8#' / + E F-' <-
8 HG 2 JHF-'1#2#F-' 2 #' '!F# H 8'
-' ; E#' +# 8 -#-' + F#' -F @'
X8+J# F-' G8 # 8' EFJ F-' ' & 2E'
1#2#' F+JH E#' J 8' # 22F ' E 88

'+B C' %'?4' 8(@ (' (55!'Z '4' 5= (1' ':' ' 75?4' ;=58 (' . #- ' 4(22(;3" ?2'71 '<='884'99'1!' .4 41' 3 '8&
'(571' =(5(;'A) :'71'4G78' 4<4 ' ' 41(;378'5< (' (?' (55!'Z- ' %' (!'(?' (55=8Z- '4'G79 (' (2'=8'Z-MI'
4?' '5' 4:78' =55(;'A'4 '@ A84 '1'<(1'2'A'87A '2=5 4'@ A<4 45?58'48' ' 4 5(4:78!
B C' .4@4 ' '=' 48 '49' 1(57458'8'54 2' 45 '(!' s7=(?'571X =8 '75=' '5'2=;=' (1' '5' (2 4 =' ' '5' 4 78 '8';=?' '
;':78' '5'67':78'2' 4 A' b5722=' @75; = ' 42'(;;45 (' ?48' 5(5 7 ' 5714 " '8 " ?'8 '5 7" 5467475 ' (2' 4 '67(1' 49'
84587' 45R1' 4 '(1'<(;'24' ;=5<75?75 1'!
B ,C' %'?4' ?'4 (' ?4' 3=;' #4 4' 87@ (' (?' (55!'Z '4 'Z- !

" ' ! A.

! '

2 JH' m2#' ## ' E' JD)#m 8JH' #' h# F D)E#'
D)JH 82 #-H' HY ' U#D)' U####JHD) h' I <'
1J82 D)' H ' I;2D)# 8' , ' ?) h' F8' #< ' m '
82 H #E' !' ' #<<)#J8'<# '_' D)<'h82 D)'
F #8' _' <' 8'< #' 2 JHD) ' 82D) 0 < '
_' <<D)' <# ' D)J ' <D)# #h#' #' I_# #D)0'
+ #+8' ' ? ' 8 82' D)#<<<8'<'<J<EJF ' f

9 2 ' e '?<# # F 8' ' m2D)J D) #
' 4FD) #D)# ' D)cYD)< ' 1# ' D)XD) ' !' @'
/ , ' H#228' #<8' #F <# H' ' F# '
<# J)# ' ' ' # J ' ? 2 ' 2#<# #< '
g)JH JH# <8 <E+ ' 8J ' 2F# #8 <8<' '
" ' !' ' ' 2YD) D)2' K ' 1`2F# 0'
D)#<#+' * ' F D2<JD)# H 1# ' H ')D)2 H8 '
1`2D)82 F# #' 8' _28 HD)' ' 1# ' 1` F 2F2 '
" ' !' e ') 9 2 #)#2' 2# #' FD20'
J2F 2#22 ' ' Y ' ' F <8D2# ' 1# ' H '
<F ' # ' 8<J J ' ' 2F# J#228' E'
M4# J # 8

9 2 ' DD22 F<' 8' #)#JH' 12#' E #' 1J8<<#'
<) H ' 14) 8' _2 ' 2F H F# H ' D2JHD)2' H '
8 H#2' 12 H ' # <8 # H ' 2<# 8' . 2 #<'
)# # ' ?m<# D) JH JH#228 82 8' ' ! !

<8+I8 #--8 ' E' J <F ' ' ; '
,#'8' E' +* # ' G+#' F H# # Y' F0'
1+ G#F ' &82I# # +F '#' JF' #GH'-# F2'
JF ' 8 +F ' &FJ8' #'8' &8 <-8 @@
$+882#F ' 82 JHJ+ 8 -8' G8- F ' ' +# 0'
H ' J + ' &82I# # -' #' #-8' F #'
/# F-' 1#2#F-' + ' ' ' ' ' 8X' &82I# #-8'
J8J#E# ' JJ#-F-' ' # + E# ' 2 ' ! + G8-'
&82I# # +F ' -# F2' JF ' 8 ' 8 ' 1 # 8' 8+#G '
F ' JF-' 8 G ' ,c'8' ; #-8'
! GF# #-Y' 8 ' 1 #-' % , ' !' $+ 82#F '
G8 -'#'8' #+8 -8'# 'SF 'J2#8 82 '
+ +8 '<+ - + #' 1F8+8' ,C Y
9 2 ' : F#8-' / #E F ##' J1 +8 8' H 0' _·_
#8 -#-' '!## G# +F ' E +EF-' 8X'
! X F ' + FF-' 8- ' ,CBY' F- # '
9#22 +# 8' &# 1 +# 8 -#-' <8+' ' +# H -'
+-' !# J #' #-' #- # +8 -#-' $+ 80'
2#F ' # 18 + H8 -8' # 8+' #8 -8-'
I#J8 ' # ' SF ' J8J#E# ' E G 2F-' $+#
J8<-' F G +8 8 -#-' JJ#-# ' F F-J+ E##'
8G#-' '/ 2G# +F ' 82EF# F-' 1#2#F-'
8E1 #' 8 F# ' 8X' # # 8' I#J +'
1F# ' : F#8-' !# EH 2#' # EF JH 28 -#-'
8E8-' &F# #' 1#2##' F -J G#' 8G#-' #'
+#F # +F ' F- + 2#F @40 8X' 2F 80'
#228' <+ < G '<8+' ! 28 # 8F ' , 8 '
##8 -8 Y
9 2 ' 2GF-' 1#2#F-' # H## ' 8X' &8-#0' _.C
+F ' +8G# Z ' ! 2 8F-' -' F 1 8 -#-'
H 2EF-' '9 8 8E ' 8X' # -82 J1 +F '
2<# 8F-' " 2 - 8E8 -#-' /#E E 81 F-' #220

B C' O=;'(55='Z- ' (?:4 78' 65" 4 ' ; :4 78' . 49' = ?(5351 : = 51 ' 4 ' 5 (8' ' 8' 4' 45 78'78' . 49'
'; = 51 ' ;(@ (' :4' ! 7 ' ' =548' 4(5' 78674' (?' '?' 41@78' 4545 48 ' '5' ?4?' '=541' 4;4@4 (5 !' O= 4?45'
Z- '=:'' ' 45 78'78' '8 4' (55=' ' 7 ' '5' O= 4?45= ' 4 ' '5' @@45?';4' (?' 4?A' @' =145!
B C' 3 =5!' (9=5 '(?' (55!'Z-Z' '565' ' K' O=;'(55=' (?:4 3 78' =' 3L1 : = 51' . 49 ' 878;4@' ' =587 (1 ' 4 '
872<78' 4G78' <'2'58' ;(@488' ' 4 57 1 !Q' @!' -M!' (674' ' 4 5(;358' '5 45?' ' (?:4 37 = ' 3=;' (55=' =:''884
8A;72=' '9R'84' 4=!

A . B " ' !

! ; !

" ' + ' ' , ! !' ' '
' 8' hF U 8 ') !' !' ' ' #228' <D)'
, !' #)JH' h< < #F-H' 8J ' 2## q|n<9)JH0'
' <D)J ' _' H' <#F# ' #' !' D4## ' 8'
2;2F#< D) D)#<' _' +<#' H#' 822 ' # ' D)JHD)< D)JH
bU;3 1 7 !' [2@: : @bU ' ' *`2'22!' : !' 75;bU: : bU
" ' !' I_ F#<8 D)J ' 8' 8' ;2F#<0'
J 8<JD)# H' ` !' ?2 # 8 ' !
E' I`2 JHJD)' 2F D)# ' #' _2JH' J < D)# '
J # D)' $D)J<D)# ' 6#<<8' < ' D)#' 2' < ' F<'
<<#)#J' ?m<# 8 ' ' J2 ' ' #< ' _' D2 D2JH' D2 '
D)#2#J<#' ' 2FD)

_ . L' 9 H' 8 ' 8' J#2#' F# ' ? # ' q|n< <8 #'
h #9)22' 8' ? 28 D4#' 2 # 8 ' JHD)# '
?$F)8 <' ' ' ! !' D)E#' E# F2'
I_D)J D)' 8E' 22J ' _' ' ;28#22' ' 8<JJ '
' ? 2#<88 JD)J ' + ' ? 2#< D)0'
J D2' !' ' ' , ' ?<8< E0'
J<#J ' , ' hF # D22' ' 5 D ' _' '
' ! !' ?<9)J +F2' 8' 6 28 ' $ '
" ' !' $8J JD?I <D)# ' 8' F 0
J F' $# ' , ;2F < ' F <F D) #' ? # '
F228 ' !' 8 ' F#2J ' ' G'
' ' , !' D)J ' <8' ' ? 2 J D) '
< <')# H ' ? 28 F<' $#' 22 D) ' ' ' '
<JE# ' ? # ' 2F D2#

_K ' 9 # ' I_ F#<8 HD)JH' 8' I_2F<8 D) D)' '
<F# ' < ' D2# 8 ' !' ' 7 !' _' 8<

E82G8 -#-' + F#' -F ' 8 I 8+-# ' ! 28 # 8#'
' # 8 # ' + H ' ##2# ' 1#22#' &F #'
& # +#X' 9 #2E +8 -#-' ## @ $+w2#F '
&+ +F w' # 8+' #' / # JH+ JH - ' 8 ' #'
+#F # - ' # ' SF ' J8J#E8+F ' E8F-' 1#2#F-'
F +E +#' 8 ' +\-' ' 8 22 G## ' # ' 8 ' 0'
H + JH ' H FG ' +E + E ' 2#2EF-'
8< -' &F JH E#' I #J +' 1F# ' F+8E JHF-'
1#2#F-' 1#2##' F+JH8+ G# ' 8X' G8 # 8 '
+# F+ ' " + F-' ; #J +#F-' JH w#'
F 8 -#-' ¦ J F-' ; #J +##' $ +#J## '
#-' 8 <8' SF#' -# ' #F-' #' -< # ' E'
G+8--F ' 1 #-' / # ' G8 ' <FE' 2F J0'
#-' 8 ' ## ' # ' -F ' <8+8G+# # 8' <FE'
2F
9 2 ' JH E#F-' 1#2#F-' 22#' < + I # '
-' / +8 8 -#- ' & 2EF-' 1#2#F-' 8EH#'
G8 #8 -#- ' 8 ' JH E#F-' / # J + ' - <#8 - '
+ F#' -F 040$+w2#F ' #w' # 8+'
> 2#E# -' 8 ' ' # 22 -' F- + 28- ' J G8 8'
+8J JH ' ! J8+E 8' +E JH ' <8+'
E#-J +E# ' JF ' 8' / 8+E J+#JH '
F #' &F G 2F-' 8< -' G#' 8 ' & E F-'
8+18J #' -F ' / # JH ' 1#2#F-' 8EH#'
/ #2 -#' I #J +' 1F# ' wE8-' 8JH + E# '
1#2##' &F JH E # ' 8G#-' FGE + #w ' 0' &F 0'
E+F F-' -' F28 -#-' # +# F+ ' ' 81
1#J# ' 8 ' JF ' <#-J# F- ' $+w2#F ' G8- F '
' 8H E ' J + ' G8 #8 -8- ' 8 GF-'
8X' 2 #a' +# F+ ' , C . Y' +-' -J G#'
#-' F H8 -#-
9 2 ' F+8 E JHF-' 1#2#F-' F+J E#' #'
+#F ' 8X' G8 #w ' ## ' / 8-' 8

B C' 5 4(' 5= (' =58*(?' (55!Z ' 45 58'5 1' '8 ' 1' =:''884' (55=' Z ' 5 ' '5' 0= 4?45= ' 4 ' '5' @@45?';4'
4 4 4' (?' @' =1 45 ' (' 4?(' 87A' 0 '8 = 'A' 5 2= 7 1' (?G4; (1!' 4?' ' 4 5(;3 8' ?' 4 8= 7 1' ?4' 4G58' =:' 7'
5(('=548' 49@45?45T ' 4'' 1 ' G79 (' 67=8?(1 ' (55=' Z-M ' ?4<75; 7 1' 5(d ' G79 (' (2'=8' (55=' Z ' 64(1' 1 4 3=?7 1'
TA@4' 8467' 7 ' 5 ' '5' 5((5?=' =: ' 5' 4 78'' ' <'2'' 4(22(;3' . 4 '8' =55(;'AU' <(;'75 ' %' (8 '!

<ʾ DD? 2ʾ #ʾ ' ʾ #J D)#<ʾ ʾ D)# H ʾ
J8 # ʾ _ʾ D)#2ʾ ?A ʾ 2#< #<ʾ _ʾ ?m<D)2 <JD)JHʾ
8ʾ <#JJʾ ʾ J <#J ʾ FD)#<28D)J ʾ _2 ʾ 8 0ʾ
JHE#<ʾ M2#2-# ʾ 8ʾ D)#ʾ ʾ ? 2 <ʾ J2ʾ H
2<D)#<ʾ ʾ !ʾ D)JH 8Jʾ ʾ 2F9+F)ʾ _ʾ
6 #< <ʾ ʾ , ; 2 # ʾ #<< 2 #ʾ * ʾ
D)JHJD)# ʾ <<ʾ ʾ D)J _22J #<ʾ
<# 2Y 8ʾ # ʾ ! < ʾ 5 B - ʾ 8 9) ʾ <D)JD)<Jʾ
<<<# ʾ # ʾ <<8JJFʾ ʾ ʾ < ʾ #228ʾ cʾ
#22 D)<D#ʾ # ʾ 8ʾ #<Jʾ <ʾ ʾ # 0ʾ
!8 J8ʾ !

9 2 ʾ <D)ʾ 8ʾ D)<JD)# Hʾ H 8< D)# ʾ
D)JH c2J dʾ F D)ʾ 8Jʾ JFʾ _ʾ ʾ D)0ʾ
JHD)J ʾ !ʾ &ʾ ʾ 4 ʾ 8ʾ 8 2# ʾ g)J ʾ
82E# ʾ 2) ʾ _ʾ <<D)# 2#8
J < F# ʾ <#D)ʾ : J8<8D) ʾ !ʾ J88ʾ F E2ʾ 8ʾ
2 # 8 ʾ < ʾ H ʾ 8 <#2ʾ _ʾ ʾ ? 28 F<ʾ
8ʾ 8< F< ʾ U2 ʾ K !ʾ !ʾ ' ʾ h H0ʾ
D)#22ʾ 8ʾ U_#F#<8D) HDD# H m ʾ ʾ BY8#22ʾ _ʾ
F 2F# H8ʾ 8ʾ 28 D)# #JH

9 ʾ ʾ ' # ʾ _ʾ ʾ , !ʾ
* ʾ D)J 8< 8ʾ ʾ ʾ + k
ʾ D) ʾ 8<JD)# Hʾ #22 D)<D)ʾ e ʾ <0ʾ
DDUJʾ 4A2 ʾ 2 ʾ ʾ #<ʾ _ʾ ʾ <##ʾ E#<<<8ʾ ʾ
ʾ ʾ D)J ʾ #G2#2#ʾ F# #8ʾ ʾ
2F# ##8ʾ < ʾ ʾ ! !ʾ # ʾ / ʾ " Gʾ
ʾ !ʾ) 8<< ʾ ; ʾ D)#< <#

8--#-ʾ # G8 -ʾ ʾ H 8 ʾ +-ʾ 8 +#ʾ
' #E G0 8 # ʾ 8 ʾ #2288H#ʾ #-ʾ #-0ʾ
+8 -#- ʾ { ʾ / 2 + 8H#ʾ 1#2##ʾ +#8J#ʾ 0ʾ
8H +8 w ʾ ! F #+288HF-ʾ -ʾ 8 JH 0ʾ
+8 -#- ʾ #2G# 8F-ʾ 1#2#F-ʾ " F #ʾ ! ʾ -ʾ
2F w#+ +E#wʾ + #ʾ-F)@ $+w2#F ʾ # 8+ʾ
8H -ʾ 2F 8 -8-ʾ 8 ʾ #++8 -8-ʾ <FEʾ
' G G, !ʾ 88#-# ʾ 8 #G8+ #ʾ <#-J <#ʾ
ʾ ! J8+E 8 ʾ < Eʾ 2 +8ʾ +#G#Ew ʾ Jʾ
<+ # E8ʾ +E# F ʾ 8- ʾ ! J8+E 8 ʾ ʾ
< --8ʾ #-- ʾ J828 + +8 ʾ # ʾ J -<8J Fʾ
<#-J <# ʾ 8Xʾ 8 ʾ 8 < +8ʾ # ʾ #2E +# ʾ
/ 2 F-ʾ 1#2#F-ʾ +J#ʾ 8Xʾ ' / #EG8 # +F ʾ
+# F+ _K
9 2 ʾ / # JH ʾ 1#2#F-ʾ / G + G#ʾ ' 8+ #Gʾ
+# F+ ʾ $+w2#F ʾ ; E#ʾ &F 8ʾ # 8+ʾ
2#E#8 -8-ʾ 8 ʾ JH# - ʾ # ʾ SF ʾ J8J#E# ʾ
2#2EF-ʾ 1#2#F-ʾ / 8EH2# #E## @ $+w2#F ʾ ; #wʾ
G + # ʾ # 8+ʾ G8 #8 -8-ʾ 8 ʾ -- +#8 -8-ʾ
+8 I F ʾ ʾ J8+J ʾ # ʾ SF ʾ J8J#E8+F ʾ
&F G 2F-ʾ 1#2#F-ʾ EG 8 # ʾ 8Xʾ ' 8 -82 0ʾ
JH +F ʾ 8 ʾ 2## ʾ 8 GF-#F-ʾ 1#2#F-ʾ / 8+GF-##ʾ
8Xʾ $#J +F ʾ +# F+ ʾ , ? ' Yʾ +-ʾ & +ʾ
#E#ʾ 1#2##ʾ F+8E G<ʾ TG#-ʾ ' 8#22 +F ʾ
8 ʾ &F 2FG##ʾ 1#2##ʾ 8E E#JH# _KA
9 2 ʾ #Xʾ G ʾ 8 ʾ F ʾ 8 8 + - ʾ , C_Yʾ
JJ#-# ʾ J #G8 8#ʾ <#-J <#ʾ # ʾ E ʾ <w #0ʾ
8 #wʾ - 8+##ʾ #2E +8 -#- ʾ : F#8-ʾ
+ J#ʾ #-ʾ 2F w0 J0 #- ʾ 8 ʾ E8ʾ
G8 8ʾ + +8 ʾ + F-ʾ 1F# ʾ Xʾ JcE ʾ
$+w2#F ʾ ! 2 I wʾ FEH #J ʾ F #ʾ FG c8 -8-ʾ
Jw-#ʾ -F ʾ " 8 -ʾ + +8 ʾ I #J +# ʾ JJ8<#

B Cʾ %'?4ʾ 5= (1ʾ @ 4;4?45 41!
B ZCʾ 9ʾ ; (2; 72'8ʾ 8 =5=1!ʾ '5; '?' ʾ ; @8'8ʾ '8 (ʾ '5ʾ -ʾ (5!ʾ (!ʾ =!ʾ 4 ʾ ?!ʾ 1!ʾ ! ʾ ?!ʾ !ʾ '54'?' ʾ (2'(ʾ 4=?4 1ʾ (55=ʾ
ʾ 72''(2 ʾ 4 ?! !ʾ !ʾ ?!) 9ʾ : '8ʾ <(; '24ʾ @4 8@'; '4 ʾ 24; = ʾ (4 (1ʾ 3 '8 '(5(1ʾ 5=5ʾ 1=?=ʾ 4; 4ʾ (ʾ 5=: '8ʾ '5ʾ
('54ʾ (@@=8' (1ʾ 4884 ʾ 84?ʾ ' 41 (; : " 5(('=541ʾ 4; 4ʾ (: ʾ 4= ʾ (?ʾ 1 (1ʾ '8 (1ʾ (; ; =1 =? ((1! s5=?ʾ 8"
(2'67(5?=ʾ 4 = ʾ =: 4@84 ' ʾ '?ʾ '1@ '1 '8ʾ <(45?=1ʾ 48 ʾ (=ʾ (?1=?51ʾ 4 45'884 ʾ 4 ʾ @ 84 4 4(ʾ 4 45'884ʾ 49ʾ '5; 7 '(ʾ
; R: 84 ʾ =1 ' 45 '8ʾ 42ʾ '584 45 '8ʾ '5?4 : ' 4<; : ((; 4 48ʾ / ʾ 67' : 78ʾ (55= 71ʾ '7' R(ʾ '5ʾ =?'; ' : 78ʾ ?4 4 1'5(5 7 !

. K " ' !

!

' , ' # U9)#U 8' ;2# H#' !'

D)JH #8# 8' U#F# ' 22 D)m#JD)JH' K k

' ?) JH#9)8' !' I2 ' 28' #

F# 8' ? ' 2FD)##D)' #8<JD)' <8

_K ' 9 2 ' h + H J)22' J' I_ F<J DD D)' m 8 #< '

' J ' < ' < ' N' 2 ' ?<# # h0< #9) ' !' ' J !'

) !' !' 2 <J' 8JJ ' 2 #J 8?A2 '_'

?$D)82JHF' qm<# # 2E##4<8' _' ?)<# #)#<28' ' +D '

E# ' 2 'I2D)JE# ' !' ! != V ' 'I28 D)# 8'

4A2 '?)8< D) ' ' '?<8< D) E# '4A2 ' 2# 80'

FD)JHD)#22! V + ' , ' ' ; ' '

!' + # ' F#2<# 8' # #<8' , ' e ! '

! ' ! !@ DD)JH 8J ' H ')# 8 J8' _' <0'

J # <FD) H' _' <J #<JH ' <F# H#'] !'

?$ <JJ2#8< ' ,?)< <J<8 Y' !' D2I#D) '

?m<< 11D)J ' # ' !

/8+12 '1#2#F-/ + +8# ' - <#8 -' -' ; #J +#F-'

#E# 8' # ' $+-82#F ' #-' +# 8 -#-'

+ JHF-' $+# J8<-' H 8' +# F+0@

/ G + JHF-' 8X' 2# 8' +# F+' ! F 0'

8F-' -' 2F 18+ 8' - 8+##' ! '

+8 E #' , +# F+ Y

9 2 ' & 2EF-' 1#2#F-' F+JH E#' 8X'

8 +# 8' #'8 ' # 8 ## 8' #F- ' 8' <+

G8 #8' / 2 #' !# 8 ' # ' X##' 9 2 ' & 8J8 '

+ FF-' 8- @ +JF-' < + I F- ' # 8F-'

-' / 82JFF-' / # EG# --8 -#-' 8 '

/ #E +28F-' '! F #G ' -' H # ^ '

+ #' -F ' +-' 8 E E##' #-'

/8+ 8 @ +-' / 8+ E #' # EF JH 28 -#-'

! 2' 8 8 + -F-' # ' + ' ###' E#8# ' ,? ? Y'

! + G8-' F#2+#G# 8' G 8' F #' JH 0'

8 -8-' J 8-#' -F @@$+ 82#F ' # 8+' / #E0'

G8 8G-' 8 ' +J + 8 -8-' 8 ' +J 0'

-J # -' +FE8F-' 8X' $#J I# 8' 20'

#J 8' + FF-' 8- ',CLY@ # 22F-' # 0'

-F-' +8G +8' # J#<#

B C' 7A' ;2'@848' =2'8' = ; ; 7 55 ' 3=;' (55=' '5' ; (2;72'8' 8 =5!' !' ?4' 4 !'248' (48' ! '@!' !' '1 ('
K' '5;'?'' '5' K' ' (5!' (' ' 4 ' ?!' ! !' (5' ! !) , ?(' ' 75'" (' ' 1!' 7 !' (T' B
B MC' 4' . 4 ' : 78' '; = 5 1' '?4' 87@ (' @!' ' (55!' - N' @!' ' 5!' N' @!' ' (55! - MMN' @!' M '@!' MM'
5! - , N' @!' , ' 5!' - 'N' @!' , ' 5!' N' @!' , ' 5! -N' @!' , ' 5!' Z N' @!' , ' 5!' Z N' @!' , ' 5!' 'N' @!' , , ' 5!' M N'
@!' , Z' 5! - N' @!' , , ' 5!' , N' @!' , , M' 5!' N' @!, ' 5!' N' @!' , ' 5! N' @!' , ' 5' N' @!' , Z' 5!' - 0' @!' , '
5! , N' @! , U ' 5!' N' @!, ' 5 N' @!, M ' 5!Z - !
(48' 2: (5'A ' 8' 4' ; = 'A' 3=?'4 5A' 67(8' '; ' ' 4 5(5 4' 7?4=' 454: (5 ' <74 4 'G79 (' (1 ?4571 '@(48'
' + # ' + # ' ! $ # ' ! $ # ' ! $ # # ' ! $ ' # ' - ' # ' # O'
= 7 1' (' ; = '8' ?4 : 422('=541 ' 4 ' 87 : G7 ('=541' <'5(241' 4<4 ' 0 4; = ' =4 3'78' (?' (55!' M!
! ' / @ 6 @! % ' . 4 4' (2 ' (?(4' (55=' - ' ?4<75; = ' 87 : G'2p (2=8' <7'884' 5((5 ' 3 =5!' '4 ' 4 ' 4 7('
7; = ' (@7?' (1 ?45' '5' ; = ' (' 4 ' 884 !' @' !' v 4674' ?7 : '75'" 48 ' 67'5' <74 ' ' / ' '8' . 49' # '
A674' (;' ; = = 7 1' 2: (5'A!) s7" (55=' Z ' ' : 4227 1' 8; '@8' ' ' " ' ! $ v ' ?4' # 4554 3=' '567') '
K' # 4554 378' : '455'=' (" 467((' @4 45' ' '5' '; ('(1 ' (2 '(A' 4 55 1' 878; 4@' F' (@7?' 0= 4?45' 4 '] 7(2: 4 !'
= 45 !' (55!' Z 'N' o4674' @=8 4(' '5 45'1 78' . 4 48' '; = 7 1 ' 5=1 '5' : 58' '; '8' ?48' 5(=8' 5=5' # ' 5=5'
' 5=5' ' 5=5' # O - ' '; = 7 1' @=8' # 4554 37 1' 1 4 1 = (5 ' 67'?4 1' ! 55(248' 2 =5'A'
84?' 0' : 4 5' ;" = ' '5'8' 4 ' 5=1 '5' : 78' 0' : 4 5' ; '8' '58' 5' =8' 586'24' (?' = : ' ' '1' + ' @ #' '!' 4!' (28'
;=21" ''' ' ?4<75; " (55=' M !) 0 'o4 ' ' K' =@@'?7 1' ' (; 7(7 1' 48 ' 4 ' 42'; ' '1' ' B5=5' '; '8 C' (:'
K' ? (= ' . 4 4' 5 2= 7 1 ' (55=' M ' B7 ' 8; ' : ' ' (1 ?; 578C' 78674' '5' 3=?'4 57 1' ?'4 1 !Q) & (72=' @=8 4(' . 4 '='
67A' 3h?45=8' ! $ ' ?'; 4 : (= ' @(72('1' ' #' (@@422(H' '5; A@' ' 8A; 72=' 9'!
(654' (' 4 5=' # 4554 3H' 4 ' (55=' - '] ' (2?58' 2: (5'; A' ; = = 7 1' 0 =5(; 3'A' @=; 3(1' (; 488' !'
K' ' ; = '8' ?4' 0' : 4 5'(' 45'45 ' : 78 ' 4 ' '5' 4(' 4 5(5 ' : 78 ' @4 ' 8@('7 1' -' (55= 7 1 ' 78674' (?' 4 57 T

'   !   A . _

9 2 '   '   #   '   '   '

: F#T-' m2   E   ' ?22   '   2   ##1 '   h ' 2FD)# 0'

H'   '   + F 8'   8'   ' _   '   _2 '

I)D)   I ##8D)J '   F+J8'   !'   "D)J '   #J

!   !'   2   # ' _ '   D)<# FY '   , '   '

##9)#J'   8'   h   H D)#22'   +   '   #   '

'   !'   _   22 '   8 <D)# H8'   8' hF   #0

67 '   89 '   :0;'   ' <   =   '

8'   _28hHD)'   !'   '   18   8'   8

F8+# 8'   !'   <F+ '   ) 2D)'   '   '

, !   !'   D)JH #YF   0   #28' 28' #7   8D)##H'   8'

1J   H F)#22' 1 # ' 0<' # #'   F2D) J '   ; 2F<J D)   '

8' 2 # <D)JHJD)# ' _ '   _2F# JD) hH'   8'   I _ F#U#J8I 0'

JD)#   '   9'   #EJHJD) # '   '   '   !'

D)XD) ' /   '   !

9 2 '   #X'   G   ' +# F-' 18+8'   8 -# F- '   _KB

: F#8-'   #'   #Z'   2F   80   0   #- '

'   F   G ##-'   + F-' 1F# ' #- '   +   JF-' 1#2#F-'

1#2##'   2#2E# '   -'   - 8+# '   F 8 -#- '

'   +# F+ ' $+ 82#F ' E8 I -   -' #   8+' 1   #2# -'

,   8   +F   Y'   2   80   0   #-' 8 '   &8 +0'

G# 8 ' ,H E#8')   '   (' F #' 88J#E# ' &# +0'

#F-'   1#2#F-'   &   2E# '   ! #8J#   -'   G   '

F2 + '   EF   '   2#2EF-'   #2 +#- ' 1#2#F-' & F   0'

JH E# '   8X'   J# 8'   + FF-' 8- ' ,L   Y'

! J   2   F-' / 8   # 8 -#- ' 1#2#F-'   8E   #'   FE 0'

J#- '   + FF-' 8- '   &   # F-' 1#2#F-' & F8 G8'

'   / 2FXF-' -   GF# #-' <8+'   '   # 8+0'

' $+ 82#F '   &   0 #28   -8' G8- F   '   '

&F JH E ' 1#2# ' &   2E#' J   + '   F2 JH8 0'

-8- '   F+8   EF-' 1#2#F-'   E+8J   G# ' 8 '

F+JH EF-' 1#2#F-'   F#+J8+   G# ' 8   JH0'

8 -# F-'   + F#' -F   @   2#'   8X' ! X   F   '

28+#JF-' 811#J# F+ ' ,L   Y

9 2 ' & '   '   #   '   ' w'

9 2   '   J 8' -#G F   '   #28' 8 '   #+ 0   _K .

0   '   1 ' 4#   # ' +   B' '!4!' (?(55!'   - ' 67='] 52'425'''8' '8'   (2;= 1=' ' 85; ;488' ' 7 ' '5'   (572@3''
=2L;3 =5!'   ! ' ;!' Z' 4 '   884 !'   ' 1 = ?!' @!' Z Z!)   (2 1 (' (' # 454 3'' !' <''' (' !   ' . $ ' = '78' 0' : 4 5'88'
. 4 ' ' 1 (' 1 =5'='G75 ; ('   ' (2251 '] 2=5?7 :''' 1 ' 0' : 4 = '1 ' = '78' . 4   41 ' 4 ' <(1'2'(8'   #   ' 8(= 41 ' 4?R?' '
4 '   = 1 35(2?7 1 ' 49' 67='   ' +   @\   ' 4 ' + #   #   ' . 4 48' 0' : 4 1 ' (4 ' ?48; 45?4 55 !'   = 8 4('
2(55=' . 4 '' 0' : 4 5' (4' 84455?'8' 1 '@ ''8'   (?' ('   = 1 35('?5 1 ' (2 4 5 1 ' @4@4 ' ' 4 '   ' (; 3(1 '   =5 (22'' , ?''   4 '8'
0' : 4 5' (4'] ; 54   ' ; 4 1 !'   : ' ' '   (2 1 (' (' (557 1 ' ; ' ; ' 4 '   '   ' (; 3(' (55=' M, ')   45'654 ' 4 8'' 5=5' = 15'''=' 85 : &'
G7   ('' <74 4'   ' ; '' ('   ; = '8 ' 4 ' 1 72 =' 1 '578' ?424 ' ' ; 48 ; 45 4'   (545'   ; = = ' ' 1 ' @= 45 ' (' 67'' 49' 0' : 4 5' (' 4 '
'5872'8' ; =5<254 : (5 ' 8= ; ' (=' ; 71 '   ; = '8'   1 @4 '='   5 2'8'   48'8 4 4 ' @= R78' 65(1 ' ?' '8='   1 @4 '=' '5' 84   ' 7 41 '
4?' ' '   ' ; '' 8((4 : (5 !'   %'   (!' (?' (55!'   - ' ('55 ' K' (79'2'('48' 49' 0' : 4 5' (' 1 '88=8' (?'   (' (?=8'   2 : (5' 4 '
K '   -   ' /   '1   ' ! %   G

NXQa'   %'   ('8 '' (?' (557 1 ' Z   ' 5((5 '   5 : '5 4 ; 3 7 1 '   (3(2?'' < '71 '   =55(; '1 ' . 4   41 ' = : ''884 ' 4 ' @=8 4('
(?' (55!' Z   '   75 ; 3(?'' 1 ' . 4 41 '   =55(; ' (4 '   5 : '5 4 ; : '' 85 ; ; 488= 41 ' < (=' <554 71 ' ?4 ; 2((5 ' 4 ' 8'245 48' ?4'
'2?= ' .   #   '   =5(2?'' <R2'5 1 '   =55(; ' (4' . 4 41 ' = : ''884' 5((5 ' (55=' ZZ , !'   =9' 1 4' @=8 '   (3(2?'' 1 '   ' ' 4&'
?('' <'2'5 1 !' . 4 41 ' 9'9'   3 '8 ' (57 1 ' ?4<75 ; 71 ' (55=' Z   ' @=575 ' 99 1 !'   = ?37 1 '   (2 : 71 '   R2'5 1 '   5? 4 ; 2' (; 3' '
4<75 ; 71 ' (55=' Z Z ' ?4'5?4' 99' 1 !'   4   78''' 1 ' <'2'71 '   4(22(; 3' ' ?4<75 ; 71 ' 7 ' ('75 ' (55=' Z   ' 4 ' B(55=' Z-M' HC'
@=8 4('99'' 1 ' $ \ #   '   (3(2?'' R2'5 1 ' ?4<75 ; 71 ' (55=' Z   ' ; 7'' 87 ; ; 488'884' 8 ; ' : 75 '   ' 99''' 1 !'
?4<75 ; 71 ' (55=' Z   )   =5 ; 3(?=' 87 ; ; 488'884' ('55 '   2(3 = 71 '   =5('?'' 32'71 !' . 4 41 ' 99'   1 ' ?4<75 ; 71 ' (55='
ZZ , !'   58@' ; = ' ' (674' 5= 1 45'   4   58''' . 4 '8' 4   =544' 87 : 8 ' 7 7 1 ' <'''884' (55=' Z-M' @ =' 5= 1 '54'   2'2?'!

4' . 4 71 '   3 '8 ' (5= 5 1 '   =55(; ' (4' 87 ; ; 488' =5' : 58 '   '?4' 8=@ (' @(!' M   ' 5 ' ZN' @!'   ' 5!' ,   N' @!2   ' 5!' - N'
@!2 ,] ' 5' - 4 ZN' @!2   ZN' @   ' 5! - , N' @!2 -   ' 5!' Z ' 4 ' Z   N' @!'   - ' 5!'   ' N' @!'   - ' 5   N' @!2ZZ ' 5!' , N' @!2M   '
5   N' @! ,   ' 5! -   N' @ ,   ' 5   N' @! ,   ' 5! ZN' @!' , , ' 5 '   M' 4 ' M , ' N' @ ,   ' 5 ! M N' @! , ,   ' 5 ! 2   N' @ ' , ,   '
5! ,   4 , , N' @! ,   ' 5! , N' @! ,   ' 5! ZN' @! ,   ' 5! - ZN' @! ,   ' 5!   N' @! , - , ' 5   '

< 2C'   3 =5!'   (9!' (55!' Z-M) K'   =2258'   342V=2?78' ; (@488' ' . 4 57 1 ' '5'   = 3L 1 : '8 '   4 5(' 674' '' (55'8 '
K' 754' (5 4 1 ' '227?' ?' 1 '8' !F

A . C j U . O ʾ !

ʾ "

ʾ ʾ ʾ " ʾ f @))2D)# 2# K<JD) " ʾ

14 2= 1 G58 D ! 41G'bb;3 ʾ /ʾ ʾ f ʾ

x ʾ 2 ʾ 6 2#< <8JJ#)# ʾ 8ʾ ʾ

14 :4;44 ʾ ʾ ʾ ʾ

L7' :54 14 DZH7@;bU:3U !ʾ , ʾ ; ʾ !ʾ

bU;3 3bbB5 +@#U;: ' ;& b ' :4 t' I 1:5bU'5

! ! P75;2' :3 Z B '7@4:! *@bU2 1 15 14

=5;=1842; P75427U:3! 'G

4: :4bU 2 ʾ B%7@;27U! ʾ ʾ ʾ D%7@&

;3bU : Z2'2-42 ʾ # 2ʾ " #1 ʾ ~! F@4!

2 J JEJ ʾ q#ʾ #< < ! 1 ʾ 2 D)U2ʾ) ʾ

27bU'5 2@bU'@:) @ 4 :"24 U7 '2 :@4&

)2"ʾ) @ $) JJ## UY WN) 0 # .D 8 ʾ I2 ʾ

:! 2'bU;bU1 Z bb-bUE;: D

!Z *JU # 2! s V'4 ʾ @12;b 1ʾ K2: :! '!@4@;bU

:@! -UJ*Q *UbU2=1bU1ʾ 1 ! =5;=@U4'! 2"

ID # 8 1 f ʾ !EJ ʾ < E#<D)ʾ KJ4 2Y#

:@1 '5 Z =51bU;54!

#28ʾ #Eʾ? - T22#-ʾ I#- c ʾ 8- ʾ 2 H8 JF-ʾ

1#2*F-ʾ G-#G## 8Xʾ 8 +# 8ʾ ,#ʾ8ʾ*< #F-ʾ

8 ## 7ʾ# ʾ828+#JV ʾ#< + [-ʾ8- 0ʾ : F#8-ʾ

2ʾ +E +VJJ 8 V 3ʾ #8ET-ʾ ! [8#Zʾ

*#2##ʾ 8JJ#ʾ ʾ - #-ʾ 0- 8<-)ʾE -8^) a 8-ʾ

! F 8# 1#2## F+8 E#)ʾ <F ʾ EF F-ʾ 1# #-ʾ

-[#! 0+0 $+ 82(ʾ 0 / # <HT -Eʾ# 8+ʾEF !ʾ

1#2#8-ʾ & 2E#ʾ #ʾ8ʾ &F JH EF ʾ8 ʾ F+0

8H EF ʾ / 22 # ʾ 1#2#F-ʾ <?0 0G 2 #

hJJ#-F-ʾ8-#ʾ ʾ &FHJU#]E ʾ 2G 2ʾ 8X) 481#c aʾ

JF #ʾ F+JH E ʾ<FG I# ʾ ʾ 8228ʾJ8J#E#ʾ

F+JH EF-ʾ 2G82ʾ # ʾ 1c#G ʾ ; 8+-F-ʾ 8) ʾ

/ 2 JH JHF-ʾ -ʾ #++8E-#-ʾ#E + EF-ʾ\- ʾ

] -ʾ -ʾ "2F #+ +E8 -#-ʾ S[#8I# ʾ

822 #28F-ʾ 2F *)T -#-ʾ SF#\I# 0)ʾ

&818J c ʾ < =#-ʾ &F G 2 JHF-ʾ 8Xʾ ʾ

2#E # + +ʾ8 > #)2 J F-ʾ \X? \ 12¥# 8ʾ

+1Fcʾ -F

9 2ʾ : F#8-ʾ +# 2 < # \1##!ʾ F] Yʾ

18+ 8ʾ - \+## ! ʾ +8 E #0)) -E8-ʾ

/ 22 #ʾ1#2#ʾ" J G 2#ʾ 8G#-ʾ #E# ʾ

E 2 -T^ $+ 2#F ʾ !+F H+ ʾ # 2 +ʾ #ʾ

+#F # -ʾ8 ʾ "d]J # -

" 2' ! A.L

J J J J J' '
J r J J J
J J J J ' J
J J
J J J J J !
J J! w w H

! !

,LAY J. D)#1#' <' + ! # ' ' ! A # D28JH' H' # <JDDJDD#' <<# ' 8J#< 28# ' F# h' 'h H 22' # 8' D)#' <' <88E ' ' D)#2#J ' ' 8J D)' J #<J' _#D)82<' # #< 8' # D)222 ' 9JH J2F)JH D)< <#F' < < J8E<J' # ' J# #2#

9 2' hJ ' # ' 822 ' <' <' ' ' !2 ! f' ;2D)JH D) D) ' # ' # ' A2#<K<# 1;2F #' '# 9< ' ' 8' ;##) 2 F*) ' J' < # ' ' ' <' ' ' D)J ' #E< ' J# D)J 2 ' ' h F #) ' # ' D)+ #2 ' @!' ' ?<# 8 J#' E' <#22' 2 D)#<8' ' FD)J D)#2 <' 2 # 8 ' ' D) D)#2 ' 22D) # ' 2JHD)' J# 8E#')J<# ' 2D)## ' J#228' ' D)< D)#' ' ' ' I;2F<0' JD) D)' D) ' # ' m FD) <D)JH JD)# 68D?)J J <E' 2# 80 8 ###' ' # D)< ' D) ' 22J ' # DD 22 # ' J D)2D)# ' U ' # W)' 8 <' Z#' 4' <8D)JH 2D)' J 2DD## ' ' D) D) ' D) ' <' J 8 #22' D)#22 # ' F# ' Y<D)#2 8' J <

r 4 4 4' EG +F-' 8X' ! X F ' 82# L_. G# -F-' 8X' + FF-' 8- @ 6 8 8 HF-' ' + 8G ' <+88J#<FF-' -J#8 # ' ?&# #E##' +8 2#-' # 8+ ##8' + FF-' 8- ' & F 20' EF-' 1#2#F-' #' 8X' +# F ', ## Y' # ' <8+8G+# # 8' $+# ' 8X<8E# #E' 820' -8JH 22#' G #' 1#2##' & 2E#' ' &F 2# # ' # ' SF ' J 1+8G#' 8 ' -FJJ#E# ' -#2 I ' ,L Y

9 2' & 8 EF-' 1#2#F-' 8 22 JH#' 8X' L_K -- +#-8' # ' -8 #2#' -8 8' + FF-' 8- ' HG F-' 1#2#F-' 8 8 Hc' -F<+8 -' 8X' # 8' JJ#-F-' ' 2 F E#' 1#2# ' + ##' 8G8' JH +F ' ,#' 8' &8-0' # 8Y' < - SF ' + E#E#--8' 8F ' & F0' ' 1#2# ' H 2E#' 8G#' /#EG8 # +F ' E 2 -8' ,LBY' G +# -' 1#21' F H 2##' 8X' G8 #88' J < F-' ' 2#8 #G8 #-' &F 2# ##' !J+# #F ' 2F 11#0J#228' E8<+ 8E] F ' ' & 2E ' 1#2# ' F+JH E#' H E8F-' 1#2#F-' E8+#J#' &FX' # JH -80; 22#-0 " 8 # ' JJ#-F-' # ' 2 # @& 2EF-' 1#2#F-' 0

BM,C' s7(4' 3';' ?4875p' '5' u?';4' ' 4 5(;3' =?24'(5=' .(V2'58=5' ' 78674' (?' (55'' 1' MZ-' 8''@@245 7 ' (' %' (!!67=?(1 1=?=!' v4674' 4884 (1' ?4<245?78' 2''(78'8!8' 48 ' 7p' @=8845 28 '78'5 4 (22' 48' 48 (4 @4' 2' =5';' ;== 71' !' 7:2'5!' 4?' 87@ (' 7= ('158' (?' (55!' Z,,' =15'(' '5' u?';4' '8 =' ?44884' (:' (55=' Z,,' (?' (55!' ' +4' '5' =?';71' ?48; '@ '@54' (?' 37G78' =271'5'8' '5' '71 ' ?4;2(('178 ' =15'(' ?44884' '5' !' 5:2'5'4584' ' 4 &' *5(;2'' ' 67(4' '5' =?24'(5=' ?48'?4 (5 7 ' ;71' 5'3'2' (2'7?' 8'' =?49' '8' 3((;478' 7:2'5'458'8' 67(1' 4941@2(' 145?=871' =?';'8' =?24'(5' 41: (5(;4'' .(V2'58=5' =!' !

0'(71' 375;' 67=?(1 1=?=' 87@@24 4' @=887178' 49' 55(2':78' 2 =5'458':78' 4 ' %' + - # # ' 67' ' 4 5(;3' =@78' '5 4 71' @ (4' 1(5' '78' 3(:54 55 ' ?71' (?37;' 49 (4 ' =5(8 4 '51') ?' 55(248' '8 =8' G475' ?4171' @7:2';' G7 '8' <(; =8' 4; = 41' 4<4 '178!

+ BM C' s7(4' 87:' 3=;' (55=' MZ-' 5((5 7 ' (' ' 41(;3=' 4<4 75 7 ' (' % (!' (?' (55!' MZ ' (:' 55(2!' 2 ! ' U(?' (55!MZ ' (4' !MZ-!' ? (H' =:'51' 4<4 p' 3 =5!' (9=5!' (?' (4 84' ;=1 !MZ-' ' 41674']':8=578' '5' 5?';4' 3 =5=2!'

BM C' (?41' 67(4' 3';' 5((5 7 ' (?' (55!' MZ ' 49 (5 ' '5' %' (!' (?' (55!' MZ ' '5' 2 !' (?' (550' MZ-!

' '

A K # " ' !

! ! Ye D)# ' q)<81#- 2 8' D,<J # ?1 ' J #<<U 8' U<8 ' 822 ' ' ?m<# D)# 8' 822 ' ' 2YD)#<8h) ' #h8J)H B ' < D) ' S##' <0' #<' _22 D) ' D) < #'

L__ 9 ' , ; 2F#<J8<J J' ' #22' H ' 8#22' _' #7 D)2 ' #22' 8' m #' ' <' ' D)< ' 2 ' H' ? 2 2 2 #' 8' #J<#FJ ' 2 <J J 2 ' ' D)<F F ' ' <F) ' 8 80' ' & ' < <' . 22 # ' 2F# <# ' ' 2 D)<'__2 2 # ' 8' _' hF# 8 #' ' 8' #28 ' . ')) ' 2 # ' ' ' < ' J8 82' #22' E < ' 2 ' 22' F ') 822 ' ? 2 2 # ' 8' 222F#2 ' <' 2 ' < ' 2 ' 8J ' ' #2' 8 2 # ' I # 82<F # # ' . a)0' ' I_2 82< ' ; !' ' J8 < ' !' ' !' A

L_N ?9 2 ' JH' 82 # ' 28J8' 8J ' <# ' 1 8 0 0 ' _I_2 82 F +<' 82 F ' <' ' ' 8 ' J ' #J02 # #' < 2 ' <# ' ' ' J 0J2# J ' F' #J <8 #<' 2 2 #<8' 8' F J #2' < ' ' 8F<' #F#<8 J' ' <# ' <' ' } 8 # <82 # ' JF<' 2' 8' ?mA2 ' <' 8# 8' _' I28J8J ' _' ' ! !' <88 8

4G 2 G# ' 8X' 1F ##+F-' 8 +# 8 ' + F-' 8- ' $+ 8E ' J ' n28+' " #2E 0 2F ' ' H ' TG8 ' V22# +F ' # ' +8G# 0?' 8 ' / 2G# ' 8 ' JJ#-#' -F ' ? / 8+G 20 J0' ' / G + #G ' 8X' + +#-8' G 8' 82-F-' 1#2#F-' / # G # ' 82-F-' 1#2#F-' ++8E# ' & 0' E8 EF-' 1#2#F-' +G # ' 8<' +8-' J U#' 2 # 8' # #') ' ?

9 2 ' F+J8+ JHF-' 1#2#F-' & 2E#' ' # 2 ' 8 ' G 22F-' 1#2#F-' & 2E# ' 1#2##' 8G#-' 1F F+#' ? # 8+ # 8 ' JJ#-#' <8+' 0' 2 1F ' 1#2#F ' ! # +#J# ' JJ28-# ' ##-F2-8' H G#' ,# ' ! 8 ' 12F I # Y' ' I - ' ' +# ' 1#2# ' 8 8 H# ' J + ' 2#8 *G8 -' 7 # 8+#J8 -8- ' # ' 8 ' +F ' 8 ' 2 1F ' 8UF-' 1#2#F ' 8 ' &F J F ' 8UF-' 2 80' +F ' 1#2#F ' " #2E -0 2F ' ' ' 8X' 22# +F ' JJ#- -' ' & 2E ' ' # 2 ' 2 1F-' 1#2#F-' 2EF21# ' 8X' 20' # 8 ' JJ#- -' ' 8# 8 H ' 1#2# ' 2J 2 # ' 2+F G#F-' $+ J8+F-' ' 82-8JH2 ' 8X' 1F F+F-' 8 +# 8 ' <8+' E 2F+ ' JJ#-F-' 8- ' ,L . Y

9 2 ' $+ 82#F ' 82 G028JH 8 -8' # 8+' +#0' F ' 1#2#F ' 8 8 H#' 8 ' 2 F E +F ' 2 F E) 8G8 ' JH +F ,LKY' $+ 8 2#F ' 8 H2 E' G8- F ')J + ' G8 #8 -8-' ' 2#8 #G8 #-' &F 2# ## ' # #' SF ' JJ#-#' -F ' G +#F-' 1#2#F-' F H 2## ' 8X' G8 #88 ' 8 ' F+8E JHF-' 1#2#F-' +# ?' 8X' # -82 JH 0

B8 C' 0 A ; ' 5 ((5 5 ' (' %' (!' (?' (55!' MZ- ' ' 5' 55(2!' 2 !' (?' (55!' MZ ' A (8' ; = 1 ' MZZ!) 2' 78' 4 (' 1 2(<58 ' 67" ?' 1 ' <' 2' =' 85=' 1 (= ' (55=' Z ' 45' ' 7 : 2' 5' 7 1 ' 49' 2 : (5' (' ; 7 1 ' , M ' 5(' : ' 8 ' 4 ' @ A?(' 1 (9' 1 (' 0 = 1 ' 57 1 ' 5 2= 7 1 ' ' = 57 1 ' 4 ' ' ; = 7 1 ' 7 ' ' 5' 55(2!' 2 !' 1 2(<78' ?4' 65=' (' ' ' 4 5(; 378' 87@ (' <' 2' 78' <7' ' 2?72<" . 4 ' 8' 2 : (5' A ' 67" = : ' ' ' (55=' A A' ; !' M !' 1 2(<7 1 ' 375 ; ' ?4 ; (@' (' ' 4554 2' 78' <' 2' 78' (2 ; = 2 1 " ' (55=' MZZ!' 2 4 ' 1 2(<78 ' 67" 84' @87 1 ' < $ # # ' - ' (@@422(: (' 7 ' ' 5' 3 = 5!' (9= 5 ' (?' (' 1 !' M ' 67=' (55=' ' ; ' 47 1 ' q 3428 (578 ' ' 5' @ A2' =' ?4' 75(5 : 7 ' = : ' ' ' (55=' M , ' ' : ' ?!) 45' 674 ' (: ' 3' 8' ?' 8 ' 5 745?78' 48 ' 1 2(<78' 67' ' (55=' MM ' 4 (8' 5 2' (8' ?4 (8 (' ' 4 ' L 3 35= 37 1 ' ' ; ' ' 4 ' (55=' MM ' ; 7 1 ' V4 45=' =5?' 5' 7 1 ' = : 84?' !' %' G?4' ' 5< (' (?' (55!' MM^!

BM C' 55(2!' %' (!' 4(?4 1 ' 3(: 45 ' (?' !(55!' MZ ' 2 !' (?' (55!' MZZ ' A A' ; = 1 !' MZ ' !' J

(1# 1;#F++F) ' ' D)# 0. D)# ' D# #h' 28?# 0
I' 1;2 JFJD)' '2 #18D) ?_' J2FD) ' D# E' '
28E#.2# ' ' m#F ' ' <' #+F#2J9 ' H
828 #f^ (' H# F)JH #)' D)# H 8 ' f

0 91' : ' #' 0<# H <' 12 ?m<D)#2. 8' ! A'
1# 'J2 # #' <' 2 # ' ' . E D)#2 ' . D)22
J29)JH' 28D) J02 <' # 8' 1# ' <'
<9# # _' # 8< D) ' <' J8 82 D)#22 J' A

92' h #)2 8' F#<J JD)# ' <' 8# <D)#
! ! ! ' ' # < #
! ^)JH 8 <' <8' # D)82<' # <' # 8' '
J)#22 8' J # ' 8' 0<#' <#D)' <' 8<' <'
. D)22 D)J D)J2#D)J ' <' D)8# ' D) 2 # ' 8# '
<F ' F' D)J <8D)#<' #2#U# ' I p D)22 8' _2 0
2D)# ' <#. I# D)' D)22' _' # ' D)82 8' '
D)#<8 _' # ' <2D) <D)# H _2JHD) J2#DD J' _' '
! 2Y<D#8 ' 8' 1_ F<8 D2 ' <' D) H)
' _ D)2 ' ?<### ' <' . D)#2?8 ' _' 8' #'
1; D)82JD ' _' <#D)8 <D)' _' F F#2# ' D# 8' hF 0
2D)#J D)' <') 8<' 8##2' _' a- - + ' <' I; F <'
D)# 8 ' ' JF#J# ' <<#JH F# `# ' 8D)JD)' < '
U 2 <<' 2FD)#. 8 ' 2 ' D)82<' <)' 8' ' <'
8 <' _2 ' 8 8D)# ' 8' _2< ' D)#2 2D) ' <' '
J ' D)J D)J2##2J ' J ' JD)<' <D) ' < < D)#<
J<# _' S## D)# J# < << ' J ' JF8' <D)J 8#22
' <' D#<<' # ' D)22 J2D)8 ' <') _' # ' 8 '
') 8#22' W)<J8 #9' J ' JF8' <D) ' 9 # <8#< '
. D)22)# ' ' nn! J ' ' J ' <8J#)# ' _' D# # ' _J

+F 48' G # 1#2#F-' / 2 # 8X' G -# '
8' 8JH8 8' 8' 2## F2 # @ +J G# Z
GF ' # 8' I ' # J8 E# ' #--0 7
+# ' ! ' JHFE 8' JJ28-# ' J F- '
8' 2F 0 ' 8' 8 HG2# # ' -< 2# 8' '
-- +#8 -# F-@ 2 F-' ' 28+# 8X'
/ # JH+ JH +F ' E 88 -#F ' + FF-' 8-
92' <J +FI 1#2#F-' / # # ? 8X' / #0 L)L'
G# 8' + FF-' 8- @ & 2EF-' F+IF-' 8X'
G8 #-8' J < F-' ' 2#8F#G8 #-' &FUU2# ##'
8 H2 +F-' 1#2#F-' / # # 8X' & 2 + E# 8'
8' #G8+ F-' 8X' 22# +1# ' JJ#-#
-F ' ,L_Y
92' & 2EF-' 1#2' F+J8+ G# 8X' 80 LC '
+# ' < - ' < 8 # 8 # ' ## ' 82-8JH0
2 F-' G F-' +8G +8' # J#<# @ $+ 82#F '
8 +# 8' G8- F ' ' 82-8JHF 22 ' G '
1#2# ' & 2E# ' 1#2## & 8 E# ' 1#2## / 2 # '
8G8' # 8+ #- ' J + ' 2#8 #G8 -' &F 0
2# ## ' J + ' 1#2# -' 2 1# ' <FE' % G) '
F # JJ#-# -F ' <2F+# # JF ' G 22 ' 1#2# '
2 1# ' 8G8' 1F F+ ' 2#8 #G8 +F 8' JF '
82 ' 1#2# ' "#2E 80 #+ 8' 8' JF ' #2#0
F-' &F 2# ## ' 8' 2##-' # F2 #- ' ,LCY + 8 F-Z
1#2#F-' F+JH E# ' 8X' 1F F+F-' G8 # Z 8'
G # 1#2#F-' / 2 # 8X' " 28 G# 8' 8' 8UF-'
1#2#F- ' # ' 8' 82 ' 8' / # JH+ F- ' 8' FE0
F#2#G' EF ' 1#2## &F 2 J # ' EF ' 8G8-' / 8+0
JF28 -#F ' 8' J ' 8X' FGE # +F '
$2 # #8# ' J8J#E8+F ' # ' <+ 82## #- #F-' J 0
G+8--F ' +-' FG E## JJ#-# ' 82-8JH0
2 ' G ' 1#2# ' & 2E# ' 8G8 8 +# -'
8' ' JH G# ' 1#2# ' +EG 2## ' 8G8

B8 C' 5' 55(2!' %' (!' 3(4;' 4<4 75 7 ' (?' (55!' MZZ ' '5' 2 =5 ' (?' (5w!' MZ ' 84 84' ; = 1 !' MZM!
BM C' (?4 1' 3(:45 ' %' (!' (?' (55!' MZ ' 4 ' 2 !' (?' (55!' MZM ' =4 (4' ; = 1 !' M !) (' '8' (5578' 72 ' 1 78' . 4 5'
=5(2?' I '(2' 67' <7' ' '(22'] 275?7:' . 4 '8' 4' 7 ;34 (;=' <'2'=' 4@=8' 4 ' 4 5(' ' (55'8' , ' (:J(55=' M- '
(?' (55!' M !) 7; ;488' ' 4' (55=' M ' + ' 8' 4' (2(;3'(8' ' ' . =55;2'(?' ' ' . 4 '8' 4' =5(2?=' <'2'=' 4@=8'
. 49' 0' :4 5'(4' (55'8' , ' 58674' (?' (55!' , ' %'?4' @27 (' ?4' 4G78' (55=' = : ' 7(24' (?' (55!' ?' 4 ' , , !

!ʿ

(1FD*)<8)ʿ H ʿ D)1#ʿ J8 Eʿ ʿ b B Aʿ J8 214D) #ʿ F ʿ $ R<FEJD)# ʿ 2*)8#q ʿ # ʿ I'81# # 9)#<h#U#J ' #D)ʿ ? 9) **#<F@ D)JD)8 ʿ , ʿ .D)8 89# ʿ #+ ʿ 0ʿ JU JH D)#1#ʿ _ʿ J<D)#J8ʿ JD)8J 18D) J# ʿ D)Iʿ J# ʿ _ʿ <) ;0 < ʿ 6J ʿ 1 ʿ U#F#J HD) #2 8ʿ D)ʿ H8<ʿ # ʿ I #" 8 ʿ Fʿ D) JD) D)#<J# ʿ <F# ʿ #<8< # ʿ D)8 #" 8ʿ 8<<ʿ 2# 2 ʿ 2F #<ʿ y2# 2D)# # ʿ)<# JD)ʿ D)$)<# ʿ) $ " D)2 0 D)JHD) - B - wʿ ʿ F2 ʿ Y ʿ D) ʿ q)#JH<#-8ʿ _ ʿ D) D)0 J2#JH<# 9)<<# ʿ 8D)JH # ʿ f ? 2" D) 8ʿ hF# 0 # ʿ <ʿ 8<JD)ʿ Z24 f

LC ʿ 9 2 ʿ _2 J9 ʿ << ʿ #22#0 D)<>ʿ ʿ Gʿ ʿ , ʿ " ʿ ; !ʿ , !ʿ H ʿ HE# 8#Jʿ <ʿ H ʿ 88 ʿ JF<ʿ 2 # <8Jʿ J #<8D)JH ʿ Hʿ D)22D)# ʿ ʿ J # J # ʿ # 2# D)# U

LCA 9 2 ʿ 2Y<FD) <ʿ ʿ D)JH 8< ʿ < ʿ H ʿ 8 0ʿ <82 ʿ ʿ ʿ < D, # ʿ #22# 9<D)ʿ ʿ J)<ʿ <F#<J0ʿ 2D)#< 8 ʿ _2<JHFʿ 8ʿ 8#22 ʿ < ʿ ʿ ʿ ʿ ʿ !u , ʿ !ʿ !ʿ !ʿ ʿ < D)# ʿ |7D)2J #<

> 2#B#w ʿ JF ʿ 2#8 #G8 #-ʿ &F 2# ## ʿ 8 ʿ <FG0ʿ I8 F ʿ 1 + # 8+ʿ +# F-ʿ E#8 F-ʿ 8 ʿ +# F-ʿ J # F- ʿ 8 ʿ - F28+F ʿ -#E8-ʿ U 8+ #wʿ ʿ 8#- ʿ JF ʿ & 2E ʿ JF+I ʿ 8G8ʿ ? G8 #w ʿ 8 ʿ JF ʿ + 8 #-ʿ ' # 22#ʿ -# #2# 8+ ʿ 8 ʿ - F28 ʿ <28 +#F ʿ +# F F ʿ ʿ 2#8F#0ʿ G8 #- ʿ # 8 ʿ I#G8-#8-ʿ J8 8 -ʿ F+ ʿ JF ʿ E#I# ##- ʿ 8 ʿ +8 F-ʿ <+8 # -#- ʿ 8 ʿ JF ʿ 2# 8+ 0ʿ # 8ʿ ' # 22 +F ʿ -# #2# 8+ʿ ʿ +# F ʿ ʿ 12F I# ʿ ! 8 ʿ Eʿ +8 ʿ E8 ʿ <+ F2G ʿ 1F# ʿ ʿ 82-8JH2 ʿ $+ J2 # ʿ #22F- +#- ʿ SFwʿ # 8-J8+8ʿ 18J# ʿ 8 ʿ # 8+ 8 0ʿ -8 ʿ J + 8 ʿ # ʿ 8++#-ʿ 2#8 #G8 +F ʿ # ʿ -8+I# 28 ʿ 8 ʿ <<+8--# 8 ʿ 8X#+8ʿ 2# 8+F ʿ 8ʿ +8G# 8ʿ #- ʿ <+ < 8+ʿ < J8 ʿ 8 ʿ + SF#20ʿ 2 ʿ I# ʿ / F# ʿ #2 #J ʿ J < #I# -ʿ SF ʿ # 8+ #wʿ # 12#X# ʿ 8X8+J# F-ʿ #- 8 ʿ 8 ʿ - #J ʿ ,# ʿ 8 ʿ +E# 8ʿ E Yʿ < - ʿ J < #I#0ʿ 8 ʿ 18+ # ʿ 0 / 822 F-ʿ 1#2#F-ʿ c8 2# G# ʿ <#-J <F-0ʿ 28J8 -#-ʿ JJ28-#w ʿ ! ʿ +# ʿ , ## Yʿ 2 1F- ʿ 1#2 ʿ ! # +#J# ʿ -F<+8 F-ʿ 8Xʿ & +F ʿ &F 2# ## ʿ #I# ʿ # ʿ # ʿ < 8 #0ʿ 8 # ʿ 8 ʿ # ʿ <8+8G+# #E 8 ʿ < - 8 ʿ # #SF8ʿ + FF-ʿ 8- ʿ +EG 2ʿ 1#2#F-ʿ &F J #ʿ 8-^ʿ 812# 8ʿ + FF-ʿ 8-

49 ʿ JH EF-ʿ <- ʿ 9 #2E +8 -#-ʿ # ʿ -8 8J F 8ʿ ʿ I# ʿ 1# #I# ʿ & JH] 0ʿ EF-ʿ ' #E8 ʿ 8Xʿ JH + ʿ 8#ʿ # G-80ʿ JF-ʿ & FX ' # 22 ʿ J G # F-ʿ I 2#- ʿ -#FGF2 +#ʿ J8+ # 8ʿ ʿ J8J#E8+8 ʿ $mm(

9 2 ʿ +F E 14ʿ 1#2#F-ʿ JH #G8+ #ʿ 8>ʿ # 0ʿ -82 JH +F ʿ + FF-ʿ 8- ʿ ; - # ʿ 9 #2E 0ʿ +# 8ʿ <8+ʿ +F ʿ P 8+1 +E#wʿ 8G8 @ʿ +JHFʿ 1#2#F-4ʿ # 22# ʿ 1F F+F-ʿ 8Xʿ 2#JH#w ʿ ʿ -F#-ʿ 1+ +# F-ʿ <8+ʿ E 2F ʿ JJ#-F-ʿ 8- @

2 ' ;2 82 ' ' | #22 _' #2# ' h1# h'
h ' J8 J ' h

9 2 ' J ' I # 8h' <8' 1 2 821 ' ' # h 0'
#22 ' _' I 8' ' _2 2 # ' ' H# ' <
2 #2<' #<' < < <' h H ' J2 8 ' ' 2 <J # '
_' < <' 2### #<' <F#<J' 2 #< 8 ' hF' #J <J J <' #2#
#J ' F ' _' # < h' #+ ' < +< ' #
+ F#< ' _' ' !
p# ' h ' J2# J ' h< h' 2 # 8 #
2 ' `I? 82< ' J ' #+ #<
8J ' h ' 22 ' 2 ' h H ' J2 8

9 2 ' h H 22' J2 8 ' h ' < ' 2 ' H 8h'
' JHJ#-8< ' h ' F# ' 8 0 8 2 ' _28h' '
hF h ' < ' JF #<J8<J' ' F#28' # ' <#' 8'
8< F#22' 8' 2 <J ' h ' < # ' J8< F h'
8 8 ' _' #H < ' ' J<#F<' <# ' #hJ <'
?8<8' <#<8' 8 8

9 2 ' , 2 82< ' 8' h ' h ' h< ' h< ' _'
h ' ' ! ' H <8 ' _' h ' < '
J #<88 ' qm<8 < 2' ' 2 <J # ' 6' < ' J8 8 # '
<# J < ' h ' < ' 2 ' < # ' h# < J'
?222 JH < ' < ' 2 #f# ' # ' `Z '

9 2 ' 1;2 < ' ' h J h c' 8' 82# ' <#0'
' < ' # ' U; F#< #<' ' #22 ' I2 ' H '
, ;2 # 8' ' ?<# #J ' ' 2 <# ' < ' 2 0'
< #h8' EA # !' ') F J J' <8<# 8' < J< ' 2 '
<# 82<8J ' ' _2JH<#<h# ' ' H JH' $ ' J<#

; - # ' & 2J --# +F ' <8+' 82-8JH2 0'
+#F ' 1#2#F ' & 2E# ' 8 ' + +' 4- J8+ '
J <#<#' E + # #-' -FJJ#-F-' ' 8 ' , Y
9 2 ' $+w2#F ' <+ -<8+8' G8- F ' ' 820' LC
-8JH 22 ' 1#2# ' & 2E# ' 8 ' ' " 8 F018++8 '
1#2# ' 2 1# ' 1#2# ' +#-' 82-8JH2 ## #'
G # ' J + ' & 2EF ' JF+IF ' 1#2#F '
+J # ' 8 ' J + ' +F ' P ? 8+1 +E#w '
' SF ' JJ#-#' -F) 2F+# # ' < + # ' -F 8+-#'
< + # ' Jw-U ' JF ' " #2E ' $ +#J# ' 1#2# '
+# ' 8 ' 2##-' F2 #- ' " 28 E 2 JH ' I -0'
' ' & #-' &F 2# ##@ G8 # ' -< 2# '
' 82-8JH# ' F ! SF8' E' +8 ' " #2E -'
8 I # F-' 1#2# -' 8 8 H#' JF2#-' + F-' <8+'
& 2EF ' F+IF ,AY
R' 9 2 ' & 2EF-' JF+IF-' JJ#-F-' <8+' 80' LCB
EF ' 1#2#F ' JH #G8 #' E8' # -82 JH##- @'
8EHF-' '&F1 / ' 8X' ! 8< 8 +# 2#-'
J# 8' #F- ' + FF-' 8- @ +8-' ' 1#2##'
8+ 2##' 1#2##' +J #' I - ' 8++ #' # F
8 ' 8 I # # ' 8 ' JJ#-#' -F ' +8-' ' # # #J#-'
8' SF ' X' 1#8+8 ' #+ JF2 ' & 8#' 8 '
8 I # # ' , Y' ' 6
9 2 ' 82-8J 2 F-' 1#2 ' & 2E#' -< 2# ' LC.
J# ' 78' 8X< G ' -F2 -' 8UF-1' 8 '
8X<822# ' & FJ8-' 8UF- ' / 8+G 2F-' 1#2#F-' +
J #' 8X' <# JH+ JH +F ' JJ#-F-' ' 0'
JH 8 -# F- ' &# + # #F-' 1#2#F-' 0'
+ #' 8X' G8 # 8' + FF-' 8- ' ,BY
9 2 ' + ' 1#2# ' & 8 E# ' 1#2##' 822 JH# ' LCKe
8G# ' # 8+ #w ' + F ' 8-) ##+G#-#F-'
1#2#F-' & 2E#' 8X' #0 #w' + FF-'
8- ' / 2 H8+ JF-' ' # G-#G ' ,# 8 ' I 2#-Y'
8X' & 2 + E#w' UFGF2 F-' 8- ' +8< #

B C' 0A;' 4<4 (5 7 ' (' %' (!' 4 ' 2 !' (?' (55!' M ' A A' ;=1!' M ,!' 4' (:=575' ; 72 (!' %'?4' (5=!' - !
B, C' 0A;' @(' 4 ' 4<4 75 7 ' (' %' (!' 4 ' 2 !' (?' (55!' M , ' A A' ;=1!' M !
B C 0A;' 5((5 = ' (' %' (!' 4 ' (:' 2<!' (?' (55!' M ' A A' ;=1!' M !
+ ' 55(2!' %' (!' 4 ' 2 ' 3A;' 5((5 ' (?' (55!M [' A A' ;!M -

J JD)H 981#822z# ' _4')) 8 # H # ' D)Y ##_m#D)m'<J)+<' 'I; DD82 ' 'JFD)#<J <8< #'8 _'#< J#22 _' JFDD8J < F# 'J8JH F# 8 ' D)82<'2D) JD)8 ' " ' F# D)2' _4 <#D)<D) D)< J8 D)

LC_ 92' <8 D)#?<9) #9)J ' # ' D)#<J < ' 8# #9)# ' J < 2 'D)< 82# 8 J <86J # #< < <F#2# ' D)# 8 D)<< #22<8 < J # ' D)#< #< RR # D)82 D)<' D) ' D)#J8#JD) ' J8D)JJ D)<+F< E8J # < ' JF< J<D)<JD)#< JF# JD)# ' '5:bU@;4bU;3 7- 57'-:4! J

LCC 92'_2< F E ' 0 <D)# ' FD) J <JD)#< F 2 ' # ' F# D) #<8D) ' U# D) D) F D) ' F#< #<# J D)#<'<' 9# H DDé < ' ' <<#JH F# ' D) ' ?)# 8 ' # 8< D)#22<<8< '# F#-8 < < < 2D)< J<# '# #< D)#< # D)J ' # J JD## '_' 8 82 ' D)# ' ' F <JD) 'D)#< x8<< D*XD) '?!

LCL 92' _2# 2DD # <.D) ' F*< '# D) D)# ' 8 I 2 D)# ' D)0 +9JHD) 82# < ')'# #)82< 8 d ' , ' ' ' ! 'w'< < F#<# ' F '<'<'9)<<#

!J+# ## $ +#J[' <8+ 82-8JH# F ' ' H018+E# '$ 'H E#8Y F-SF8 '+ # ' ,#8 '; EF '28 F+F Y <+ <8+ 822## '1#2## +822 # ' $VX'# # '# 8+ 8 - < -8 '8' +# F F '$ +#J['- 2F F ' ' 82-8JH2 ' #) ' ;#-# V # ' J828-# +F ' 8 ' -wJF2 +#F ' #E#w'8' 2 # 'I 2F +# 'F #I8+- +F ' ' 82-8JH2 ' #<- '# J2F-#I8' -# F2 JF ' -8< 8 ' / ' ,#'8' A ' ##-Y 8 ' <28 0 +#F '-FF ' +# F '-# #2# 8+ $ +#J# ',.Y

92' 281#J#8 < 8- 8- I#-w # ' +#8 2# # 8+ # ' -#I8 $+w- #G# ' &8 F ' # ' F ' -+ G8- 1 J ' 8--8 ' <2F+# +F ' J + X JF2#- H # F ' #18- 8 ' # #F ' + 2# #- G w F ' #'8' <8- #- ' # , ' -J #8- I 2E8 # - 2# ' SFw 8+F<# ? # J#<#8 8 I8 ' G ' SF# - 1F# ' F ' -8 F ' + <8+8 '# 8G+F ' 8J F ' -<# 2#- $ 8 # 8 #F ' F H#w ' ,' Y

92' ! + G8- #8 -#F ' 1 J ' ' JH 8 -# -'# 'SF ' JJ#-F- 8- ' &F 0 2 G#F- 1#2#F- &F E #+8 # ' 8X' 1F F+F- #w ' 0 F+G#-#F- 1#2#F- J +# ' 8X' 1F F+ - J#w ' J8J#E# ' # ' #<- ' { G+8--F <+w2## # # ' EG 8 F- 1#2#F- R 8+ 22# ' 8X' /8+ + G#w ' JJ#-F- # ' 8E# ' 8+ +#Z G w +E JH w ' ' 1#2# ' G# 8 ' ' 2#8 82 ' G # ' @&F - F- +JH#8<#-J <F- ! X F ' SF#8I# 6,_Y)?

92' "8 F 18++8F- 1#2#F- 2 1# ' 8X' & +F ' JJ#-F- ' JF2 +8 <+ <+# ' #'8' 2 # ' $+w2# ' 2# ' J + ' & < G8- ' ' 82-8JH2 ' 1#2# ' & 2E# ' F #

B-C (?4 ('5((5 7 '(' %' (!'4 ' 2=5!'(?'(55!'M -'A A';=1!'M !
B C (?41'3(:45'@ A?'; "(?'(55!'M 'A (4 k=1!'M Z!
BZC 55(2! %' (!'4 ' 2!'4(?41' 3(:45' (?' (55!'M Z'A A' ;=1!'M ' 49;4@=' =:'7' ! 758 (5'' 67'*3';' 4; 4' 4<4 7 '(' ' 4 5(;3=' (?' (55!'M 'A A';=1!'7 ''5! 3 =5! (9=5'4 '(']':8=5='7' 5?';4' 3 =5=2!' *

l^<#ʿ <J#Jʿ D)#hJ#ʿ ʿ 9)<#ʿ <8Jʿ F#<J8ʿ)<#<< ʿ E8Jʿ <E2ʿ ʿ JE<.f<E ʿ <#E<ʿ <8 ʿ0ʿ ʿ J8 ʿ F ʿ<#ʿ_ʿ ʿ ʿ <ʿ EJ;#ʿ <E Eʿ EJ #ʿE# J#ʿ 2E ʿ?ʿJ<8 # Fʿ #<ʿ ?) <E# J <# ʿ # <#ʿ ! E##ʿ ʿ J #J8# ʿ Eʿ E#2<#EhE ʿ J ʿ # ʿ h # E#22ʿ <ʿ 2F#- 8?ʿ <ʿ # ʿ ʿ I `2F#<8 EJ ʿ FEʿ J28#<#-ʿ <ʿ_2# 8ʿ# ʿ

9 2ʿ 2<E< ʿ # ʿ #<<8ʿ <<## 8J8<ʿ .D) a #2ʿ ! ! ʿ fZʿ ʿ 20 0 # #<4ʿ ?y28 ʿ # E820ʿ <)2!ʿ <ʿ J8+ 8 #2ʿ E#2#ʿ # ʿ EJHʿ < <ʿ < # Eʿ Eʿ ;2E82<ʿ FEʿ J <8E#<ʿ ʿ # ʿ 2 <JE# ʿ<ʿ ?`2F<J<)8# 8ʿ <#<#ʿ _ 2#ʿ < <)Eʿ_ʿ E<ʿ <ʿ E<88 E

9 2ʿ) 8E ʿ 8ʿ 8 E#2#ʿ<ʿ E 9ʿJ8 <ʿ !ʿ !ʿ !ʿ ʿ Eʿ J2 # ʿ 2# E ʿ ʿ :(J ʿ # E8ʿ 8< E#22ʿ < EJ ʿ H ʿ 28 JE ʿ < ʿ -?'245 !ʿ V!ʿ ʿ J

9 2ʿ 2FD)#) ʿ E82<8E8 2ʿ# ʿ E# ʿ Eʿ <E# ʿJ E# #Jʿ <#E ʿ < Eʿ J ʿ?ʿ<8<E# ʿ # F E ʿ_ʿ <ʿ Eʿ)?U# #ʿ8 ʿ<F# 8ʿ2 Jʿ E# # ʿ _ʿ #<-E ʿ E#ʿ Eʿ F###8ʿ J 8EJE#-ʿ E<<ʿ Eʿ J #<ʿ F82F E ʿ h ʿ !ʿ F# 8FE ʿ <ʿ }8 JEʿ ʿ ʿ !ʿ !ʿ !ʿ fʿ ?` <ʿ #4ʿ E# -ʿ ʿ EJE#2ʿ ʿ J ʿ <#) E ʿ 8< ʿ !ʿ fʿ .#22D)

F2 #ʿ JJ#-#ʿ -F ʿ 8 ʿ 8><FG## I# ʿ +J8 ʿ J + ʿ 8 -ʿ < - 8 ʿ -< 2# ʿ ʿ J #F ʿ SF# F-ʿ ʿH 8 ʿ SF ʿ #-#ʿ +# +)E 8Jʿ E8E8+F ʿ 8#ʿ +# F F ʿ # 8G+F ʿ ʿ -8#<- ʿ # < -# F ʿ +# F F ʿ 8UF-ʿ 8G#F ʿ 8 ʿ FFJ# ʿ +#ʿ ʿ SF ʿI#-ʿ #28ʿ &V #J ʿ - 2I8 E ʿ #ʿ J 8ʿ #I# #-ʿ & # #ʿ # ʿ 8 8+ F ʿ " E1+8EF-ʿ 1#2 -ʿ + 2E#ʿ 8Xʿ# - 2 +F 2#8 G8) ? Yʿ JJ#-F-ʿ ʿ)& #+# E8 -# F-ʿ J +F fʿ 1#2#F-ʿ & 2E#ʿ 8Xʿ FG # +F ʿ J#Wʿ + FF-ʿ 8- ʿ F+8E JHF-ʿ ' 28+#ʿ E # 8ʿ + FF-ʿ 8- ?,LYʿ Dʿ ?ʿ)

9 2ʿ + +E##-ʿ J4 #--#ʿ $+ 8J#<FF-ʿ LL ʿ $ 8 ʿ # 8+ +F ʿ# ʿ< 8 # 8 # ʿ 2 + FF-ʿ 8- ʿ# ʿ 2F + S0 #- @#6 8EHF-ʿ ' 820ʿ E + Gʿ 8Xʿ 2#8 82 -ʿ 22#ʿ + FF-ʿ 8- ʿ $#0 82#F ʿ / +E+ 8 -8ʿG8- F ʿ ʿ 82-8JH0ʿ 2 ʿ # ʿ SF ʿ JJ#-#ʿ -F ʿ & 2EF-ʿ 1#2ʿ +J #ʿ 8Xʿ+8G#1# #-ʿ F-J+ E#8 -#- ʿ8 ʿ '/ +G ʿ 8 ʿ - + G8-ʿ G ʿ 2# +F ʿ 1 J ʿ 8 ʿ-# #2# 8+ʿ, 7

9 2ʿ & =8 E -ʿ 1#2ʿ & 2E#ʿ 8Xʿ1F F+##-ʿ LL ʿ 8 +# 8ʿ<8+ʿE 2F ʿ JJ#fFfʿ 8- ʿ ʿJ2#8 82 ʿ 2 #ʿ # 8 ʿ J + ʿ1#2# ʿ 8+ 22#40ʿ ; F2<#-ʿ ' 8 J ʿ 8Xʿ " 28 G# +F ʿ + FF-ʿ 8-

9 2ʿ X8+J# F-ʿ EFJ F-ʿ ʿ 82-8JH 22 ʿ LLAʿ 1#2# ʿ & 2E#ʿ J# ʿ E 88ʿ <8+I<0ʿ # ʿ +# #-ʿ + 2 H ʿ JF ʿ #8 0ʿ 6 -# F-ʿ8 ʿ 8 8 -# F- ʿ# ʿ #E# ʿ F-SF8ʿ Eʿ JF ʿ # ʿ 8 ʿ ʿ - F2# ʿ <+ -E ʿ 22 ʿ F+ ʿ I82ʿ H # F)ʿ F-SF8ʿ Eʿ +8G+8V-F ʿ-FF ʿ# E8ʿ 1F+ #I8 ʿ & J EF-

B Cʿ '!4!ʿ :5?458'7 1 ʿ7 ʿ'5< (ʿ (55!ʿ ?!
BMCʿ O(84ʿ3(:45 5 ʿ'5ʿ %ʿ (!ʿ 55(2ʿ4 ʿ'5ʿ Y2 !ʿ(?ʿ (55!ʿM ʿA 8eʿ 4= '!ʿM M!
B! Cʿ s7Aʿ3';ʿ5(5(5 ((?ʿ(55!ʿMM ʿ 4<45'5 7 ʿ(ʿ %ʿ~b (!ʿy ʿY2 !ʿ(?ʿM Mʿ A Aʿ ;=05!ʿ M !ʿ
B Uʿ %ʿ (!ʿ(5578ʿ48 ʿMM ʿ' 4 1 654ʿ =5 ʿA Aʿ ;= 1 NʿMU !

!' !

J 2# 9) ' _ ' 8#22' <' #' #'FD< #F) 'D) _' JFJ80'
N' 8' JD)# ' J ' JF# ' #Y #

LL 9 2' J ' ' 8<2X) #22' 0' !
! ! ' , ' !' "l_ D)82<FD) m. /' '
#D)<' ' < ' >#<<' * < ' 2 ' <#<F'
8<J ' # #' ' ' D)< ' ' '
8' . #2?) ' 2# ' # 0' . '_' <2 #E# J**J '
2[9) <#' q <J<D)# ' <' ? 8<J ' ' <' '
< ' 2 ' : J ' 1' ; DD+82<'? _' P' 8' 20'
JD) ' ' 28<# ' #J #8D) J 9 ' 2# D) 1# < JFD##J'
2F#U #8' ' # 9)< ' 2 ' I ; 2D)82<' _' 2 ' J z J 2' '
2 <D)))D)' ' J' < +< D) 8 D)#2

9 2' ?<d D)<+DDJ' #' |#9<#+) ' f+2
<D) ' < ' J < <J' <' ' # F#< D) ' '
D)# ' 2 ' J <E# ' D)2' ' 2D)# ##8 ' <
<`2 82J8<8 D) ' <' ' <#F 0<8 2E' !'
, 2 82 #<T' ' J 2 ' 8<<' ?y2< J ?4'
? " !' 8' F #22' 8' J D)' < 6
F# # 2JD)' ' 1 ; #D)82<' ' 2 <J ' 8 # '
J #' _' ' <F# ' ?`2F ' _' # ' < '
<# ' ' 8 8 # ' ' <8< # ' I ; 2F

:L!)' 9 2' Y' <' ' : g J2# E#' J <8#<' 8'
8' ? 2 2 # ' U2 22' ' < ' ' '
' <' #JF ' # ' <8 F' 8F <#J' _') #J<FJ' '
! !' # 8J' ' # 820J 2 # ' < ' 2 '
' ' !' f' ' 8' < J<' ' <- '

'& JF ' 8X' 811#w' ' -F#-' <8+' E 2F '
JJ#-F-' 8- ' + ' 1#2# ' H E8# ' 1#2##'
H 2E# ' 1#2##' J +#' 8G# ' 2# 8+ #w'
+ F ' 8- ' " #2E -' 2 ' # 22#' 1#2# - '
8X' '&# + # # +F ' 8 ' FJ8 F-' 1#2#F-'
H E8# ' -8-8' # I#J8 ' # 8+1#J#F ' , AY'
9 2' J +F-' 1#2# -' 8+ 22#' ' 820'
-8JH 2' # ' < # 8 # ' ' SF#8 I# @'
82+ [G' ' # +E ' 8X' + +8 +F '
JJ#-F-')' \11##- @ &F ' ' E #'
JJ#-#' ' 1#2#y-' " #2E a' 2# G# ' # ' 8 ' '
& 2E ' 8 ' / 2 H8+ J 4' E8+# -' 1#2#F-'
-J+ E##' 8X' F- + 2#-' J#w ' '
44 J + ' 1#2# ' 82-8JH2 #' 8 ' ' 1#2# '
2 #' ' 28+#' JJ#-##- ' J 8 JHF-'
' 8 J ' 8X' FG 8+ -#F #' J #-F-' '
82-8JH2 < ' 8 ']' H 2E ' 1#2# ' V + E#'
<FE' &F F ' $ +#J## ' E 2 -8 ' , ' 0
4' 9 2 #' / G + JH' 1# ' &# ++ # ##' 1#2##' H0'
F+ #' 8X' +J 1# +#w J#w JJ#-F-'
' " #8 G##-' + #w ' G 22 JHF-' 1#2#F-'
EG 8 #' 8X' " 28 G# +F ' , +# F+Y
4' 82J8+E ' 8X' ' +#F # +F ' ! 8 2 '
+# F+' 82 F+#F-' 1#2#F-' ! J 2 #' <#-J 0'
<F-' +E JH #-' S ##8 I# @ / #2# -' & 0'
G 22#' 1#2##' & [JH E# ' 8X' $2 # #8#' 2 #w '
+# +' 82-8J 2 F-' J +# ' <2F0'
+# -' ?E - ' 8 ' I ' # ' 8 '
I# J# ' # ' <+w2# ' +# F ' 1#2#F ' 8FF8 H#'
JF ' < #8 -# F- ' , BY'
9 2' -' &F 2# #F ' ? JJF< ' < - '
1#2#F ' 1#2##' 2 1#' G 22F-' 9#JJ#-F-' '
G8 #8 -# F- ' +' # 8+## ' # -8SFF F-'
8 -# ' 8 ' !# +#JF-' # ' +8G F ' 8UF-' , -F118J0'
F-' 8- Y' 8 8 HF-' 1#2#F-' 2J 2 #' 8X

B C' %' (!' 4 ' 2 =7!' (5578' 48 ' MM ' (4 w' ; = 1 !' MM , !' JD J
B C' %' (!' 4 ' 2 =5!' (5578' 48 ' M M , ; = 1 !' MM !' !
B C' %' (!' 4 ' 2 =5!' (5578' 48 ' MM ' '!' 4!' 4 1' ; = 1 !' MM !

' J2#DD ' _' ' #+ #<J8U#{D)8' H' D)J
-' '" ' ' ' ' ' ' ' E'
J 8 '_' J2D)## ' ' ' <8#J
' n; !D)82 ' 8' # #22 <8#J# ' '
_2J D)' J2#D)JH'

9 2' l_ J' DD l#22 8 '#)8<9# ')?8## ##0 F# #
_' 8 ' E#< # 22 # ' ' <-) ' : 2<' ##9)JD)'
J <FJ' l4 J' + e' !' , !' 2<## D)JD)' ' ' 2 0'
2?J b' 8J' +# # ' w' b # ' _' J2 yJJ8DD #' _'
R<#h \h' F#2# | 2 8 ' dE+FJ' <#z# 2# D)' 8<4'
_' 9)' d< ' ' 2 ' # < JD)' '# D)#2 p# 2D)#' '
|F)< F#J ' # 2### # ' <' ' 8 # 82' '
D)' <D)J<' ' #0J J)' <')$0' ' D)< '
' | D) D) #R ' l#<' _' ' ' h c 22? 8'
R<D)82D, ;' <' 9)## 8#<#' h hF 9 ' ' F#<'
J' ' ' ' "#22 ' <DDJ<E#J ' <2 DD2JD) '
<' 8 J ' J' ' ' ?)9)8<#)' #8' <D)|F# '
J #<8 J' F <8' D)#2< ' D)' ' # '
<D)821JF' <' 9) |8#<8' ' f

9 ' J2# 8J _22 J '#J <JD)#<' F<J J# '
' F#2# #I#+# <' _22 ' w 4 ' ' h 0'
#9)22 8' h ##' JD) 9 < h' <' h 22 ' ;2 82<'
' E#22' 82J 2 # ' m ' * D)#22

2 #w' '-F#-' JJ#- -' W- ', .Y' & F '
? $ +#J## l - F # ' & #-' &F 2# ##' 8 ' 4'
F+J8+ JH ' ' G 2 JH' !8E' & # -'
U l# E#J ' -#1 <-#' + 8' #22#F-' # ' 1# 8'
8U -E8 ' 8 -#V' F2 -' 8+ +# 8 ' "#]0' 0
E#F ' + 2# J < # ' 82-8JH2 ##+# ' 1#2# '
& 2E#' #' 8 ' + #-']' & #-' &F 2# ##' ?
9 2' /#2# -' +# #' J ' /8+ G#8 -#0'
F-' 8 ' +G# 22##-' l - ' +E JH ' 8 '
F18+F ' #-' #228' l8- @0 +E JH '
J F- ' <8 # F-' E F!' '8 ' JJ28-#w'
2 <#E8w' 8 ' < #2# ' 8 ' E#J# ' w28)# ?
' 8l8+- ' <' 8l8 #' F SF ' # '
' # 8+ # ' 8+<#8' Tl8 #8' F-SF8' E' E#8 '
FE#J##' l# E#J ')-# #2#-' &# + # #F-' 1#2'
& 2E#' 8X' }8 -J2 JH +F ' + F *-'
8- @ "#2E -' $ +#J# -' 1#2' & JH ES' 8X'
-- +#w' JJ#- -' ' & ' 1#2# ' l8l#
R8' Z & + #E ' 1#2# ' / 82 #' 8G8' &8-# 40'
+F ' & FEF F!' 1#2# -' l8+#4' JJ#- -'
8- ' ' G8<#8 -# F- ' "#2E -' $ +#J# -'
'/2 G ' 8X' 8#v#w' JJ#- -' 8- ' '
/# J+ ' 1#2# ' EF ##' &FJ8' 1H #2#w' J0'
1# ' & 2EF-' 1#2# -' / 2J #' 8X' &8-# 0'
+F ' + ## -' 8- ', KY
9 2' $+w2#F '# 8+' 2 8 -8-' #<- -' # ' LL_'
SF ' JJ#- -' 8- ' - # F-' 1#2# -' F#2# 0'
E # 8X' 2 #Z' 8 ' 2## F2 #' & 2EF-'
01#2' & < 8H E# 2 #' ? JF2#-' + F-' ' 820'
-8J 22 ' 1#2# ' & 2E#' 82J 2F F-' ' ?
1#2' & 2E#' 8X' +# F ' +8 2#F '
+1FF-' 8- ' E8+#JF-' 1#2# -' # 22# '

B -C' % (!&4 =5!' (5558' 48 ' MM ' A' ; !MM-!) 4554 378' ' !$ Z' BG''41' 3=;' z55=' =; ; '87'7' <7'884'
' 4 5(;378' 45((' 32'''8' <7' ' (42;=21 " ' 4 ' '?4<=5; =' (55=' MZ ' 87; ;488' ' (''5'8' 99''' ' 58674' (?' MM !'
=58 (5 '578' <'2'58' 7'245" 4554 3=' 87; ;488' ' (55=' MM-' '?4=654' ' 4 5(;' (?' (55!' MMZ' '565') K' A2'7 1' '5 4 '
K' '@8=8' 2: (5=8' '5' 67=' =58 (5 '578' . 49' 2: (' 'A ' 7'245" <'2'58' 4 ' ('' " ; ; ; '?4 75 !Q
B C' s7A' 3'; ' 5((5 7 ' (?' (55!' MM ' 4<4 75 7'J' (' %' (!' 4 ' ' =5!' (?' (55!' MM- ' A A' ; !MM<'!

1 2Y<8JD) ' JFE#+J J e' 1 ' U2FD) ' <# # 8#2 '
4 ' D)+9)+#(9)# # < ' J8 8 #2' E#22' ' '
RLLC' 9 2 ' #F 9) -8# # D)82<8J2 _ ' <#D) '
' J8 8 # ' J ' JFJD)J <)) ? 2J D)0J2#9JH
J*)JH 18 # ' J < F# ' < ' _' JF<2 ' ?g '
< # ' ? 2<J 2#)J ' #J<IFJ 9' _' # ' q 20<J)2J
' a2 #2 # ' _' ## ' F#28 ' ' q #-8 ' _' # 4
#gJD)# ' ?A2 D)0J2#)EJ 4 I; D)82<' _' <#))JE
<8< # ' ;2F# F) ' _' # D)0 <D)# ' J ' JFJ??
1 ' ' ' 'D) # D)<N8J D)< <88 ' ' dF) <0
I#J (' ' ##m#*#D##22 < ' H ' T;#d<82 ' # ' '
)FD)# 8 ' ' 2D)' , 2*)82< ' J < ? ' #<) +2E ' > '
.#22 ' ' +U ' 8' 2 DD <U 8<JD# 8' ' '
< 2' <) 9)#

LLL' 9 ' JD) ' ' J HD)#22 82D)# ' ' < ' 2 z #-8 ' Q' P%
, ' D)#2 ') #J<F#J' ') 2D)# ' 8) 220'
D)< ' ' *I<0 D)# # ' D)22 D)JHD)J2#EJ ' <# I '
' J8 8J# ' ' F2 J ' D)J ' 82 ' J ' <D)# 8
D) ' # ' 2D) ' D) ' J ' <F8' ' < _' D)<)D)J
_' <(9)J #< D)<< _' < 2 #<J' ' F ' _'
J < # 8< ' # ' <#) #J<#FJ' ' 2# 2D) #'
F)< F#J ' F D) D)# ' < ' 4#2 ' 2 #+#JD) D)'
' D#< ' 2D)' D)2J ' < ' A2# 8 ' <8D)JH
E' U; 2E82< ' < #2E# ' EJ ' 8J ' 2#< #0'
E22F' _' : E22F' F' E' J <8E#< .#2 E ' < ' < '
E#228' _' E#2## ' U; 2E82< ' ' E82<FE E#-0' < '
<8 JE# # !' ' ' ' 822' ' F0JE# 8

' 8X' 2#8 82 8' 22# ' + FF-'
8- ' , _Y
9 2 ' X8+J# F-' EFJ F-' V' 82-8JH2 '
8 ' ' +# ' 1#2# ' 8 8 # ' E 88' G8--80'
+F ' & #' &F 2# #8 -8-' <+ 82#F ' ' I#J0'
2# +# ' < + ' 8- ' E8' & #- ' 8 ' - + G8-' # G8 -'
1 J ' 8- ' 8 +F ' ? F ' + 2 J ' 1#2# ' ! # +#J# '
JF ' + 2E ' 1#2# ' 2 1# ' JF ' F#28 '
1#2# ' #G8 # ' 8 ' JF ' G # F-' &F 2# ##'
82-8J 2 F-' 8 ' <# F- ' JF ' #0'
8 -# F-' . @ ' #E8 -# F- ' <+ G+8E#F F+'
J# ' 8 ? F18+F ' -#E8-' 8 ' +8-'
<+8 # - -' # E8 ' &# + # ###-' 1#2#F-' & 2E#
8>' 8 -82) H +F ' +# F+ ' X8+J# F-'
EFJ F-' ' 82-8JH2 ' I - I# ' <2 # #8 '
' " #2E -' F-' R 1#2 ' GE #' 8>'
81 8' JJ#-F-' 8- ' ' 2#8 82 ') ## , CY
9 2 ' & J EF-' 1#2 ' & 2E# 6JF+I# ' 8X'
0 G8 # 8' J < F-' ' ! # +#8 ' 1#2# ' 2 1# '
9 #2E +# ' I - ' ' & #-' &F 2# ## ' +# 0'
F-' 1#2#F-' 8U#2#8 H#' <+ 1#J#-J# F+' &F 2# #F '
8 ' +8 8 ' E' 2# # F ' # # ' 8 ' F18+ '
8 +F ' ,# ' 8 ' & +F Y' F+F ' 8 ' +G8
F ' 8 ' J < #I -' F2 -' # E8 ' , LY' 8 '
J F+# ' +J8 ' 8 ' 8X<822# ' 8G8 '
! # +#JF ' 2 1#' 1#2#F @ &# + # #F-' 1#2#F-'
&F E G< ' 8X' " 2#8 82 8' J E ' JJ#
-F-' ' 22 ' 8G8' E # 8' $+ 8E '
G8H-' J ' 8' G8=# ' ' 82-8J2# 22 '
$+ 82#F ' # 8+' +G# 22# -' 8 ' 22# - ' # '
SF ' JJ#-F-' 8- ' 0 " #2E -0 H+#- F-' 8X'
22# 8 ' 8 ' 2## ' 82-8JH 2' ' 820'
+F #G' 8>' +# H +F ' JJ#-F-' 8- '
' ' 822##- ' # ' 8 ' ' 0 #228

B ZC' 0A;5((5 5 ' (' %' (!' 4 ' 2 =5!' ('1!'MM ' A A' ;=1!'MMZwU' 4' .4 4' ' =5=1 ' (2;=21= ' ;7G7H
5=145' 48 ' 0' :4'&5';71 ' (7 ' 8(2 4 5' ;= =) 2: (5';51 ' '?4' '5< (' (?' (55!' ,M!' !
B C' 55(2!' 2 !' 4 ' %' (!' (55!'MMZ ' 8 A' ;!'MM !
B MC' 55(2!' 2 !' 4 ' %' (!'MM ' 4 1' ; !'MMM!

9 2 ' FJH#228 ' H ' h #9)#22' 1#' h
9)<' 8<8' , ' ~ ,f H ') 8 #22 ' H F<
<F#<J' 2D)#< 8' #' f' ?<# J 8<+ J' ' D)0
D) D)# ' < ' J#<#' !' f' a')) ' #2' ?c2JHD))'
J2# JH' ' _ ' D) 8#22' ' Y<9) ' 82# ' H '
#+F) 82J < D)#<' !' ' 8 J) ' <' ' f' _28 ' '
#D)<< D)' ' D)22D) ' #9 <EJD)#<' ' D,20' '
< ' ' #D)<< D)' 8J' ## < ' 2Y<#D)# ' _ ' <'
< ' 1 ;2D)82<' # <' 8<8' # 8 D)#2' 2FD4## 8 ' 2D)' '
8 8J# ' _ ' 2D)' 8<J J' #Y<' ' << ?_ ' J ' z
_ ' J ' A2E#D) 0J2#D) JH' ' J < <#) # ' 8+ <'
<' ! ')$ 9(' J J' P9)< <2F#)2 ' < 2 2< '
' # <8D) ' ' F<JD)<<DD# ' # 82< ' _ '
JFJ8' ' <' h ' 8 J # ' <# ' 2 @' <# '
J # #' ' <8<J ' 8 #' ' 57' :@4 ' _ F# ' '
< ' ' JF2F ' J8 ' J J' J8 ' # <F ' J8+#' # ' '
5:4@,m

9 ' <8 J' <' 2 ' J8 J <' F H ' '
8<J J' # # c' ' F<0J <<p# ' _28 .F<' + ' <0'
$ ɸJ 2# ' F J ' << ' J < 8 ' ' 2 '
' _ ' <' J8 ' 28 ' ?) 8<. 2' ' #22'
' $ ' < ' ?c2#2 ' ' ' D1m# 22 ' H ' <F #<8' '
< ' ' J8 J#' #22' _ ' 2 ' 8 ' ;#' 8#22 '
J <' A2JH 02F # ' ' 8 ' 2 ' 2 82<'
_ ' 2 ' J J 2' ' J ' h# <# #J' H 2 J '
<' 8 J ' J' ' ' !' hF < ' H ' I ; #280'
F# ' <#' <8<2F#< ' q' ' , g ('
22<# ' < ' #!

9 ' ##0J 228F-' '& 822' 8X' &F+0'
? 2 --#28)' JJ#-F-' E 2 -8' <8+' 8E2#F ' ' # 2 4
+F-' P 8+1 +E 8' +#FF-' 8- ' / 2 0'
H8+ JF-' ' r ' 8X' #+J 22# 8'
JJ#-F-' 8- @ & #' # ' &F 2# # ' # 8+F
,# ' 8 ' +8E8FH Y' 8 ' -#E8-' + EF ' +# '
8 22 JHF ' ' 82J +G - ' <+#8J#<<F-' $ 8 '
J#Z ' # + Fo-' <- ' 8EHF-' e2
2 # ++E ' JF2#-' + F-' ' 1+ +8' -F ' # ' 8 '
2G +G ' ' # ++E)' $+# ' +8 822#h'
+# #' 8 ' J# 8' J + ' 82-8JH 20'
' H# ' G F ' , 8G8 ' # 8+ # 8?Y' E 2 -8'
' ,A Y' X8+J# <-' EFJ F-0' .' +# ?8 '
JH 8 -# F- ' -!<+#8 -# F- ' 8 ' G80'
#8 -# F- ' 8 ' & #-' &F 2# ## ' E' 8X<FG0'
' E ' 8 <# ' -8E' <+ 8J8--8+F ' 8 -'
F! ! F-' & # +F ' # ' J <F# W -8G# 8
SF# F-' -< << -F# ' 82-8J 2 F- ' 8 ' '
GT 8+ ' - + G8<#' 18J# ' 8 +F ' I # ' E8# E8' '
+# F-' -SF8' 7 G @ ' # ' J <#< '
+8G# 8 ' 8 ' +8 + J8--# ' -# 8' <+ 82# ' -# 8'
<+ 8E ' -# 8' # J8 E# '6
49 ' $+ 8E ' G8 -' J ' # ' #E# ' 2d #'
F- + 28 ' <8+' #8 -8- ' E 88' -S'
<< -F# ' 8#-' 8 GF-#F- ' 1#2#F-' ++ G## ' JF '
- +8 F#-' < FJ#- ' 8 ' 8+#<F# ' <+ 8E ' ' 8#- '
2# SF8' <+ 8 8+8 ' / 8+G 2F-' 1#2#F-' & 2E# '
1#22#' G# ' 8X' 2#JH# 8 ' + FF-' 8- '
22F-' ' F +J' JJ#-F-' ' 2#8 82 '
22#' 8 ' ' 8EH ' ' # 22 ' ; # ' - + '
H2 ##8' 1 J ' ' \2-8JH2 ' 8 ' 0' '
H 2E ' ' + ' 1#2# ' J +# ' &# +0'
#F-' ' JH ' 8X' 811# 8' JJ#-F-'
8- ' ' -F#- ' &F E + ?' ' 828EF# ' 8X

' ' ; 9 2 1#) _ , 2#) 82 8J2 [1# ? F <F I_ F# D) # _ < _ 2D)# _ .D) F h ## 82- 9 J)#22# A28 |' # 18 + H 9#22 A2#2 _ H # D)< D)#2 <# F2 (F2JF _ J8#y82 D)# _ D)#22 _ 6 2#< #D) D) #D)< 8# <# 8< U8J 9 <F#U J < <D)<<D)J < <<F J8 J8 4 8 q<#J) # # D) # D)< <8EF) 28J# JF# +? 2FD)# 8 2 <# J 2# J J2# E# <F8 2 22F U ; 2# # _ < I?`#8<28J y #2 F# < 2 82< # < #J<2FJ # # 2 ## < F2 < J<8#JH F22J ?# 2# 2 # J ?< <8 #220 J28#J 8 _ +##< F<J< #- J 8F8 <FJ < A # 4 2?`2 82# F # F# #22 ?<) 8 88< 8J

9 2 <8 J)# 2 8H <# _ 2 I_ 8#J J < #< <8J 2 028#<8 F< << # JH 2 # 2 < _ <#< <8 _ J < < # 8 < << _J < 22 < 8J 8< #2 _ + < # <# I_ 8#J # J < F #Y 20# F# J J # < .D # # # # < < J # F#2 0 #< #J < 8 <0JF2 J<# J JJ # <8#

F+G8 -#F , ## fY 8 8 G +TG , Y

9 X8+J# F- EFJ F- +# 8 82-8J 2 JF J <##- # 8+ #w -# F2 #8 -# F- E JH 8 -# F- G80 #8 -# F- 48 & #-4?F-SF8 &F E82G # 22# TEHF- ##2#F- & 2E# -F<+8 - 8X 2#J #w 8 JHU E#F- 1#2#F- +EG 2 # 8X 2#E#w JF 2#E [- 8 J2#8 82#- G # 8 22# 8 +G# 22##- # <8E#8+#y 8 - #E8 SF8 -T< + 8- -8 # 0 I#J8 +8E#8+F -# 8 -#E# F- -# 8 <+wE / 2 F- 1#2# - G # -F F- 8 # 8 FE8X &# #E## +8 2#- # 8+ #w # + FF- 8- X8+J# F- EFJ F- ? +# &F 2# #F - F2# -#E8- #E#w 8 0 J#w 8+28J F- 1#2#F- ### 8X " 28 G#w JJ#-F- 82-8JH 22 G ! # +#JF- 1#2#F- 2 1# 8X & +F #I # E E8<+wE EF # 2 # # I# F- -F#- 8 I - I# #220J28 # 8 -F2 F-J+ #G 8 - F2# J < #I - F2 - # E8 82 F EF- 1#2#F- &F G#2E # 8X & 820 I# #w 8 +w ##

9 2 X8+J# F- $+wE +#F- EFJ F- & 8 E 2 8 8y H#- I - I# [## - 8+#F 28+8##-8 E 88) -8-8 << -F8+F T#- H 2EF- 1#2#F- + E# 8 +8G#8 -8- 8 G\- F 8- <+ 2#F J + 8 - 8 G - + G8- 1 J 8- 8 +F < #I +F SF JJ#- +F JF 8G8 8# H +F 1#2#) + EFE#

B C 55= '(578 = =1(458 .4 55 (' O':4 5'84 =: '57' 84? (2(4:'(8 ,?78 4 5(' (55= '8 = 8(2 4 5 @(5428 1458':78 '?654 G7 4 3(4 4?' ('= ;71 '(578 5=5 5'8'& 2 4 (1'8 4 5'1 8': (= (884 ! 0'5;' r7 '6''4 ;=5'5'55' 4 ':5' '' (5578 '5 4 4 ! (4 '(1 ('(5' 1= 4 (55= (2(;3'(4 ?455= 4 5(5 5= 455'51 @24 '654 ':575 67(1 '8 4= 8@(;'= (55 (5 71 =; = 4 145848 4 ?'48 '5 4 ;488&!U '8B45 ! 5' '71 4 5 '(5H @4 ' ' 4 (;3 (@ '1(87(4:422'=54 ;=5 ((2(;3'('5! % '?4 5= ! (? (57=8 M 4 , , ! J

" ' !

<2 "

8D) ' #2 hF)# D)J ' 0# ' 4 7Bc +F)U# ' h'
' m D)JD)#' ' D)+J D)8< 4+' ' JE!'
#' . #22) ' <D)J<' ?A28 ' ' J)JH -8< ' '
#D)< D) ' D) # 8<D) "' q<8< D)' <8 Γ D)8 #J
2D)' D)82 9D# ' y28 ' H ' J 0<# d P ' < ')

& G 2F-' 1#2' &F J H G#' 8X' " 28<G# 0'
+F)' JJ#-F-' ') + ' q1#2# ' 2G0 +G# 8#'
8G8' /8+J 2# 8<' E 2 -8 ' # E,) ' -F '
8 22 JHF-' 1#1 ' # I # ## ' 8X0' -- +#-8'
JJ#-F- ' ' 1#2# ' #+ +#-' $ #-' q-F#' # 8 ' '
J8 E ' 1#2# ' "#2] -' $ #J## ' 8EF-'
1#2' JH #G8 #' 8E-F#' # ' 2 J # q
/8+ -T' G -)' ! ' 8E J#' ' 82+# '
, 8EF2' U ' 1# J2 ' 8X '
Z ? (' ' '
) ' ' ' # ' ' / '
8 !

+ !' 8
J 1
w
+ U =
'8 4J J r'
w ' J U J'
!" w ' r T w w

_ D)82 ' ' #J ' ' 28 JDD ' <# . D) 2# '
_' JFD)JH 2F# #8' F#28' ' +F)< ' ' D'
DD< ' <8J ' 2D)' F)82< ' J ' <#<FJ822' J '
<F8' <D)J q m<#<0J822 _' 8228' << ' J <' #9)< '
D)22' ' D)# 82 D)# ' < ' J8 8 #2 2 8U## <'
_')# 0 ### # <8JJ)#<8' 1; DD82<' _' 4
28<JH8 ' < ' JE#228' <E229 F)##' _' <2z #0
)8E ' ' 822 ' _' U#) 2J' ' , ; 2 ##2< ' '
' D ' 8D)< D#2 ' U ; 2) 2 < g <'
D) D)') K ' ' !' f

+ 9 2 ' 82 F-' e1#2' J #G#' ' 8 J ' C
8X' ") 8 G# +F ' 8 ' FG 8 -#F ' #F ' 4
JJ#-F-' ' ! +E # ##- ' #8+J# F-' ?<+ 8E 0
? +#F-' EFJ F-' ' 82-8JH 22 ' /8+J 2#
E 88' <8+I8 8 # # ' /8+J 28 -8-' 8 ' 2##
67" 4 1' ' 1' 4= ' ' (' 7 ' ;848" <7455
& 1# 2EF-' ' E82 ' 8X' 1#8 82-8
G +## ' 8 ' - 8E8F-' FE8X) + N82-8JH0
2 #' ' 8+J8 ' 8>' !#2I +F+ / 22 #)
8 ' / 2 # F-' ' 822 #GH ' 8 ' G 2 ' 1#2#F-?
82-8JH2 #' IF2 8+ #' -F ' # #' 8 + 2
1#2#F-' # 82 +E # 8X' 1F F+F-' 2# G8 #-8' R Z
<8+' E 2F ' JJ#-F-' 8-

9 2 ' ' ' !' ' D)22 ' I_D)82<'
')#22' J 9< 9' ?< 8# ' _' U ; 2 J 2# J

9 ' # I 18+# ' E#8' X' F 8 ,A Y' & 2EF!' L'
1#2#F-' 82-8JH2 #' 1#2## & 2E# ' -FJ0

B , , C' 448 ' 3'4' <=2'7 1' 557 (' 4 ' 65A' 846775 7 ' @4 '545 ' (?' (55=1' B !' f =2'7 1' 3=;' @=8 ' 4 1 @= (' =2 (5" &
?4@4 ?' 7 1' <7'884 ' @(4 ' 49'846745 ' :78) K' 5' 55(2':58' 27(5458':58' ' 4 5(4:78U' 4G78?4 1' 8A;7 ' 7 3= '
' ('8; ':' ' ' ' ((?<((558' =1 '558'?4' @ @! '@4 '877 1' < (4 1 '847';= 5(7 1 ' '5 4 4 1 @&
K[78' 48 !F' ; (' !' ! ' @!' - ' 5= !' Z!) =2'7 1' 67=?' ?448 ' 4 (' =?';'8' =?24'(5" Z 1!';7" '1 1 4?'(4'
87:8467' 7 ' <=2'7 1' ' '5;'@'458' (' 4 :'8' K (42(578' <'2'78' ; 1* " I2G4=;(5 F' p ' (674' '? (578' ;' d ' 65A' '5'
=?';4' =?24'(5=G(1 ' ?48'?4 (5 5 !
JB , C' 0 A5= A' ;= ' 45?A' 875 ' G79 (' (4 ;=27 1' 3'8' 57(":78' @ A 1'887 1 ' 75?4' @(4 ' (557 1' A A' ;=1"
' <7'884' 4 R=?"! 52'(7A ' (' # (2!' (5!' '5;'@'45 R8 ' (557 1' -Z ' 2' (R8' =1 '5';(2':78' ' H L;2=' 75A' '
'58' 5' 7 1!' ' *' !' ! T

A_A " # !

? !' P?' '';' D_bU42D*! 5;' DZ2bU42:D7bU5bU'-' #' 6 2I#' D)2 _ ? 21#JFh)' I 0' D)#+#H #D)' ? 2#2' ' 7UG :!' ' 4542' = bU'5' &@4'5!' s2@ bU'5' 45bU5:'*bU =' U';@';' '54' ,2'52bU' 'C ;=5' _2;: ' ;2'bU;3' ;=' @7;' :@7';' :' bU'@55' _';='5?@:' :42'54' ''5:#' bU5:@5! 45' 1' :752 '5 ' @&:bU'55bU '5 ' :=' '5bU@:!' :=' 2 '-5':' :=:45!' D%2bU : bU5'bU'5' '5!' =bU'5 ' 1!' 7'5;7bU5' @!&:bU'55bU D_H75'bU5' :=' 4;!' D_bU;' bU;3bU@5bU' ' '5!' _24:bU :47':' bU'@5' :=' ?'4;&1 bU'2' @@' :=5:4?:' 1!' '5:@'bU'5' ;=' ~4@:' :4''5' :=' ;2bU':'5' 5bU ;45:' _' :bU@bU 2}''5' 5:4@' ;=@' :45' :4' 34' 4@5bU P=5;3'U: !' #U@ 5bU 7'5' _'@=' '5bU@:' '5!' bU;3= @5bU' !' J

' vn!' " ' ' ' ' D ' ' '
!' _' #! ' !' ' !'
1;2 \2 F,2 ' H' _ D)#2# F#' <' ?<8<J822' ' JD) F#<J D)<8#J#' D) # 2#D#' h8<# -#' 0' # 82#2#' 2 ' 8<J J' H' 8< D)#' _' # D)<' F# 28 D)' #FD)#' 2D)' D)82<' _' 2D)' H' 8#22' _' 2D)' h JH' 8' # <F)#' _' 2D2<#' D)#28 J' H' <F #<J' #' _2<J' 8' 8' <8< #2' <' <8#< 8' J' # # ' J' JFJ D)J 9)22F' ' ' ,_ D)82' 8220 D)<D)' _'
902 J2#' F#28' ' 2 JD)' ' D)' 8<JD)# # ' q<# #J J#)J' H' H8 JD) D)' ' 2' 2D)' Bm# 22' ' JH' A2< D)JE' ' 2 JD)' J' 9 2' ' ' ' # ' F#28' J8' JD)' #' J8 JH' 'J<8 J<' D) D)' _' <' 2 # 8' #22 -8' 2' D)' J8#<D)#' _' #' # 2#D) ' # <' _' #' J2 #JJ 8JH' ' J2 D)#' _' 9 2# ' D)' 9' _' D)# 0

J8-- +' /# E8 #' 8' J 2 J#' SF#8I#' R&F ' 1#2##' 82-8JH 22c' 1#22#' 82+F G#' #' 8' +EG 2F- '8' +JFE ' 8X' 1F F+F-' 2#JH#w' JJ#-#' ' G ##-' -F#-' ; - # ' <<#E#' 9 8228 -#-' ' !# +#J' 1#2#' 2 1#' JF ' & #-' $F 2#F##' 8' 8G8+F ' <+wE ' # G8 8 ' 8' JJ#-#' -F ' <2F+# #' # #' "#2E -' 8 G8 F-' 1#2#F-' &F 2 G#' 1F F+F-' 8X' G8 #w' 0 JJ#-F-' ' G8 #8F-# F-' -F#-' HG FF-' 1#2#F-' G#' 1#2##' &F J#2 #' 8X' 1F F+F-' #w' ## ' 0 H +0' G#F-' 1#2#F-' 8EH#' 8' J2#8 82 ' --8 # 0?' +F ' #++F#' # ' &d JH EF ' 1#2#F ' +# #' 8' JF ' G2 E#' <8+JF--#' 8F ' # ' I8+ #J8' J <# #-' 8' F+' 8UF-' E8X 8+ ' # ' 18+## ' F' 8 + ' <F +8 ' I -#' & 0' JH EF-' < - SF ' IF2 8+ F-' 8--8 ' 8' JJ#E#' 1#2#F ' H + G#
9 2' I#' 18+# ' A' F w' F-' X#I' #+4' JF2#' E8J8 I8 2#-' 8' " # ' ' ' ' 82 F E' ' 82 F#E' 8X' /8+ 2#w' EFJ F-' <8+' I# ' 8X' JJ28-#' HTE+ 28' &8+ G#8 -8' ! ' 2F w' ' / G + G ' ' 8+ #G' 8' JJ#-F-' # ' < ' 8 8' X8+J# F-' EFJ F-' ' 820' -8JH2 ' ' ' # 22#-' ' & JH E ' 1#2#' +# #' 8' ' #28JH ' ' F +J' #' 8' + HF+ ' 1#2#' -8 #-' /8+G 2#' 8G8' +81 #w' F-SF8' !8 F ' 12FI#F ' E 88' E8E8+F ' -#E8-' J# 8' 82-8JH2 ' 9 #20' E +#' 8' "28 E 2 JH ' ' J F- ' JF ' -F#-' - J ##- @ /2 H8+ J' ')JH E ' 8XJwJ F-' ' # 22 ' 1#2#' H 2E#' +E0' JH ' J F- ' 8+ #' 9 2' ##' 8F ' - J ##-' -F#-' # F- ,ABY' ' 8XJ8<

B, C' =5<4' %' ('8 = !' 55(2!' (?' (55=8' MM- *U' , !' 9' ;=22('=54' @(4 ' ?5'(;3(1 ' ;=1:78 (1' (55=' MM-' 4?'<';((1' <7'884' ?457=' (5 4' (2'5!' , ' 67=' ' 4 7'@' '5;45?'=' ?48 7; (' @4 ''!

" ʿ ! A _ .

2' ʿ "ʿ ' : 7 '22 ʿ Z ʿ '5 ʿ ; ;%7U'<" @0 '=;4@;bU ʿ
Z ʿ '57U: ʿ ='@ ʿ Z ʿ bU@ bU'; ʿ Z ʿ @4; ʿ bUK& ;45bU!
<ZHbU42'57@bU ;=%#U@:bU @bU;@! ;45P ʿ ;24@@4'U; ʿ
#U@;bU'@4 j=@@@bU 7'24 ʿ P=4;! U;@'5 ʿ Z@'5P& ʿ
@='P4bU; ʿ @bU;@! P=@;;U'5 P= 7': ʿ #'P';: ʿ Z ʿ P(ʿ
';;@bU! 3! 54bU;3! ;= @7;@'U;! 75! ;! := 24=
+@'5P&2b'4; ʿ 5; ʿ @7bU'P@" 5'=@&1 4@ 1 ! @=4: ʿ U
ʿ ʿ ʿ ʿ G%' 42:@' ʿ =; ʿ , ʿ 727bU;@?
ʿ =;7:7'@ ʿ !@! #U@@ ' " 27bU;@bU ʿ ~

ʿ - ʿ $ ʿ ʿ ! ʿ ʿ 3% ʿ ʿ
ʿ % ʿ ʿ ʿ # / ʿ
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ʿ @ & ! &K& ʿ ;K !K& ! ;! ; ʿ
; ! & ; ʿ Z .! & K& ; ʿ & P K; ʿ
5 !K! ; ʿ +; :9 ! DK! &K ; ʿ M ; K
KP K K K ʿ ! K K ʿ ʿ ; ;
K K ; ʿ ' ! K K ʿ M ; K ʿ M ! ʿ
! M ; K K K @K t ʿ + ʿ ʿ && ʿ
; 5 ʿ P&K K& ʿ @ ʿ K!& 9 ! ʿ K! &K
Q !& K ; ʿ &K K! & ʿ ʿ ; PP ;! 9
! K P ; ʿ K & ʿ ! K&P ! . ! ʿ & ;
& ! ;K ʿ ; ! & ʿ RK & ; ʿ 4 K& ;
K!& ʿ + ʿ ; ;; & f ;9 K ! M >
; K;! & > D !K ; ʿ M & ; ʿ ! ! ;N
! ʿ & ʿ ! ` f K& ʿ K!& ʿ
! ʿ 8 53 5 ʿ +;<9 & !K K ʿ
Dv# ! ; ʿ ! ; ! !& K ; ʿ DvMK ; ʿ
f ʿ ! & K K ;! & !9 ' ' ʿ 5 ; ʿ ; .
K ; ʿ / ; ʿ ` & ʿ ; & ; ʿ & J>
&K! & ʿ ; 5 ʿ @ ; K ; ʿ +;99 /K ʿ &K >
& ʿ K / ; ʿ /&K!& ; ʿ ; ʿ RK & P ʿ >
; ; ;! ʿ K &K ; ʿ Dv & ` B K&>
&KP ; ʿ ;L ʿ = &! ; ;! ʿ
- ʿ CK ʿ & K / & K ʿ B ʿ S K ʿ &K > A
ʿ P ;! ʿ K 0& K& ʿ / ʿ Q K P ʿ ` P ʿ
SK K ʿ !&K @ !& ʿ / ʿ # K/ ʿ
ʿ # P ; ʿ Q ʿ K ʿ Q &P K ʿ
R P & P ʿ ! /K !K ;! ;!&KP ; & ʿ ʿ
K ; DvQ K P ` B & K K ʿ
&! ; ;! ʿ 5 K ʿ !& ! ʿ /K !K ʿ D;; & K ʿ
! D% ʿ RK ; K ʿ / ʿ Q K ʿ ` P ;
G & K ʿ &K K K ʿ # P ; K K !K K
RK ; K ʿ &K K ʿ ʿ K K !K K

B,-C ?1(;3(ʿ =2'1 ʿ ?' '8(ʿ 4 (ʿ '5 48 4 5('(8 ?' '8'=548 ʿ ?'; (8 # ʿ # ʿ 7:" 8' (ʿ 4 (ʿ 9 ʿ # ʿ ʿ
7:" ;3=2(8 (9=571 ʿ 4 ʿ O':4 5= 71 ʿ ' 41674 ;;2;8'(4 ʿ 4 ʿ # ʿ + ʿ %'?4 (55! , ʿ '5 % (! 57(2!
B, C 5 4 ʿ ! (';'" ?=1X8 ';=8 '8;'@72=8 5714 (5 ' ' ʿ t ʿ + ʿ 67" .42p67'('71 ʿ '227? <(1=851 ʿ . y
('? 4(;: ʿ 57545@(51 ʿ <(: ';(' ʿ 4 ʿ . # # ʿ ! ʿ (3& 4?1(ʿ ? = <(: " <4 ((ʿ ! 88= ʿ 458 ʿ 4 ʿ
(88(ʿ 48 <(: '&(4 (' ' ʿ (8= 71654 8(; = 71 ʿ <(: ';(= 48! '(?! @!2 Z ʿ '?4 87@ (ʿ @! M ʿ 5! , ʿ 4 ʿ '5< (
@(! - ʿ 4 ʿ - -! 0
B,ZC 55= - ʿ (42;=2178 ' " (G=1 1 ʿ 45 '71 ʿ = '(;3(8 ʿ 84 1=54 O':41';= + "@ # 575;7@(=8!
=1 ' X8 ; 4(' ʿ 4 (G'5(ʿ 8;'2';4 ʿ 65(71?(1 ʿ 49 75(ʿ ;(?4167X <(1'2'(=@(;31 ʿ 4 (5 !

A_B] . O ' !

! !

9< W)' JD)#')F JJ' R< E#FD,# 4
U(p#5pU;#5 <! 1#427'P'@ 4@ @' '1u4 :=' '
: 7: ' ' :422; 14 '22=;3 b'5:'5P! * 24 '
1!' U2{'5: 1! 1 '2@ @! bb '5bU 4@ RU '5?@:
, ' :! \'2# ;4bb bb7 ' &@4@bU : :'22 DZ bU4U
' 7@ ! * 21:! 1!

U

'(55(;3 458' :78' @4 & I '(22=8! (4?(
'5 458 <(;p(@4' (4284;32(557 1' ?'4
@ =9' 1= 846745 4' '5 ' =5'(' 4' 49@728'
' =5'=8 72 (1=5 41' 7 ' := 4(1
4 878! ! (35(;(5 I (42 '?' ' %';48
4 458' . 4 '8 '?(= 85: 14 878' ?'4 ' 5'8
((2'1' '5 (;7 55'5! ' 4?: 8 <'2'78
2(55'' <'2'' (4284;32(55'' . 49 <7 7 (8
O' :4 5'(=G =;;'8(8 ((24;(1 < ' = ?4
<(1'2'('2'! (421_'(<'2'(12(< 1@ &
7(4U ! *

AA' 9 ' + ! ' ' ' ! #J 8< F#22
<' #28' h' #I< 9h' 2D)' #S##FJ' 2#+F)#< <'
<F#<J02D)#< 8' h' #+#9<' ' <# << ;#8
28#U# h' s' #)#<# '<')#< 9)22U 78+8##8 W
*' DZ ?42@4bU;2' 5=@'5!' P=''P;bUPb' bU'@P@' <
F#2#' w' JF#< J # D)2D)' 8# #-' _' FD)#<28 #D)<JD#<
P='''3bU'5' 7'2XUP=U'bU;@=&'5'@'2=;3=' :' ,2'5P5''
' ' ' # ' !

#: (5! '' <4 '(' 75(99''''! '2'78
* 4 :(22'' . 49 2'84' =;;'878 6 ' ';=)'
1(' E(4 <= ?'458'8' =;;'8(8 (. 4 4
88= 'T! '2'78 y '55' <'2'' ('22' . 49
'('2'(4' @=45' 458' $2? ' !('
(4284;2'255578 (578<'2'(8 =55;3(?''
87@ 4178 . 49 O' :4 5'(4 = '''8' 7 '8
B8' 4 =@7 5(= C = ?'571' 75'<';= 71'
4' =:'2'71' =;;R?45 (2'8 175?' = '78' *
=:'' '(@7? / ' 5872(1' (;78 55'5'
(55= 92''' . 4 5' 87'! B, C)

@' ;! 2=7 @=@' bU ?''@'& I&' ; ;#:'''@'
:@7' ' Z : 'P!
, ;@= ' ' ' 'bU5P7'24) wU54P= ' bb;:
P4U :7'54! JJ
FbU:bU;: &@@5bU ;72@?) U;:5U@ 57U584:'U
@' '5' :R o' O#5 .
, ' :='5'R'5bU ' ' :4 ?@ :' :') :7U27 '5 ''5
5G'U' :'5 57:'!

4 ;45 71' ('=548 . 4 ' 4 (5)'
'5 67' :78 ?'8 'G:7' G788' ' ;(548 4'
(2' 145 ( )
7 ' 145 71' (. 4 4 424 145 = 71)'
= '= ;7'674 :=5=)
=2'(72;(= 71' 67(4 ?4?'' . 49 '?'84
(? 2' :' 71' :' :45 '71 & &
'4 =1'5';(' 493(7 '4:(5 7' '27;48&
;45 4 ?'4 75;X' ?'27;72=!

G9/@27'@;4@;?4 1' bU@@?' ' ;'U21? = 8722 @ 7 ;4@ (;378' <'2'78 (('' !8 457'' r(

B, C' (=284;32(5578' 8' 4' (2(;:'(8''' 4 5(''' 4 71' (' 1 = 4' '(5'' = =1(4'' (55'8' =; =' 1 458!' ' ?'4:!'
' 78674' (?' ?'4 1' ,' 4@ 41 : '8' (55'' , ,!' =5 45'75' = 1548' '5' (55=' 14584' 4' ?'4' =:' 78' 4' 1!' <7'884'
. 4 71' 3 '8 '(5= 71' O' :41 '1!' :'' '(@7?' # @ 8' '5872(1' (78I 5525' '5' '?'(' @ =@4' . 4 '(1' 87(1'
@ '67(=' =5(8' 4@ 41 :!' ?'4' ' !' =1 ''7;=' 75(' ,?('@ (4845 ':78' ':78' =1 := :(5'8' '!4!' 74&
;488= ':78' > !' (';'' ' =251 :1' 4' '((5'!' . 4 (''@ '1(' ';4' (55'8' , ' ' '(551' (55'8' ,'# - '
' # ' 78674' (?' @ 1 51' 27(5 (<4584' '4' (55'8' =; =' 8=278' 87@ 41 78' @=8 4(!' U

' ' ! A_.

2F ' J ' I_#F#U#J # EJ ' OU'D)#U # 8J'
. ! L +' J2#D)JH _' #' J KD)' U#'
2 ' J m' F#. ' < U# D)' JFJJ
F,J' <8' D) I F#J' _' J ' JF8JE' ' 2 D)'
28 ' D) 8JD)#.' D)' <8#J1#
bF# I2D) .E' #4? 8 # ' ' Jh DD2J # ' <'
28J80 D)JD)#2 K ' JHF '2 m0y# ' # $)
F#<J < J' #U) #' 2' '
U#)# ' #2280 <9' ' h h128# 8' FD)'
I_F <8K J' DD J8 D)K ' 28# 0# 0 2> ' JF # J '
8<' ' 0<8<D)# ' < #I ' ' A' I_D){ , # D)# #
8' p# { ' ' 8< F#22' <' #<8< F# 8'
##9)< ' K DD JD)2' ' <#J ' J2F 8 #< '
| # 22'44' F<J D)' ' <8' 28< ' < ' D) '
JF #<J8<J' J9D #<D)' .2# ' 8 # ' ' A'
| H D)22' ' D)8 E' ' n; D)82 <D)# ' # J8# '
' !

9 ' ' ' '? ' ' G'
" ' ' " #@ ' "! ' j' !' !'
D)<J<D)' .<8 8' 8 <' _?8 <J<D#
8 48D#' # I_' 8' DD' h 2' '
_28 D)' #J' H' D)#2<' 28J' <#' F #' ##9)< '
' 8' 8 D) ' '2 JD) ' _' ' 2F# ' <8D)J'
. D)22F' JE<' 8 J J' <)' _' D)<' D) 2#D) '
#E D) ' _' _2)#J' ' J JD) E# ' < ' E' #J 8'
D)< D) ' # ' . 2 JD) ' ' 0hF JF '
< ' <8DD.' # ' .D> g#2 ' .D) 2' E' 9)<<8JJF '
#e8 ' _ D)' <8J' D)#<' 2 J #p ' 8'
<' <' ' .D# ' _' # F#-8' H' 2JD)' D)< '
' h8< <D)J #<' 0<8# ' ' h ') 2 22' _'

)2#8 #G8 #-' JJ#-F-'8- '<8+'E 2F ' $+ 82# ' ')
I 28? +# # F '# 8+' 2#8 *G8 -'& 0'
2# ##' 8)' # 22F ' 1#2#F ' JH E#' 8G8 #'
##E# 8'8 ?##8 +# '< + '8- 'E8' 2c8 c#G8 #- '
8 '-8-8' -F E#E8+F 'J < #I# ' 8 ' + E#E8+F '
I8-'-F - '8XJ8< #-' E8J8 'S 8' I #X' 811FG80'
+F ' /2 H+#F-'1#2# -' &F -2 G# '1#2##' 8EH# '
1#2##' 2 G#U 8X' 80J 2# 8 ' J8J#E# ' JJ#'
-F-' ' 2#8 #G8 -#-' # '<+-82# '#- 8' +* # '
'-8 #-' X#1## ' ; - # ' 9#2E +# 8' <8+'
& -28 #F ' '/ 82 ' ##+8E JF-' #F0) '
GF +F ' $+ 18-- +' # ' 8' $ 8 +F '
-8< 8 +# 2#-' # 8 # 8 ' ' --8 -# F-'
JJ -F-' ? !' HG F-0' 1#2#F-' EG0'
8 # ' 1#2##' 8+ 22#U' 8X' / '8+ G#88 '
JJ#-F-' ' H 2E ' ' +#H F' < *E' 0 2F 0'
8 #- ' $ 2E -' ' F+JH ' "8 o0 SF#2 T?
E#J F- ' 8X' # JH Z' +8 2#- ' ; 20'
2#-' "8 # ' JJ#-F-' \- '?')) 2EF-' 1#2
8EH#' ' 82E + #E' #H 8+18J F-' 8-
9 ' ###' 18+# ' F 'SF# ' X I ##' 8J8 0' A '
I8 2#-' #+JF## ' I #GT-# ' I8+ ' ###' < - '
#228 ' J2#<-#-' ! 2#-' 8E# ' ? E#8 ' I' 8 '
J2#<-#-' F -8' 8 E8 ' 8 -8 ' ,ALY' 20'
EF-' 1#2#F-' 8EH#' < + I I ' ' 82-8JH2
8X' # #E##' #E#a ' JJ#-F-' '1#2# ' ! 8 #'
' 8 J '8 ' ' FG #T -# F- ' 2#8H#G8 a'
<+ 8E -' GF 'F2 + ' F- + 28 ' 18G#] 0'8 '
F2 + ' H8E+ 28 ' JJ28-# ' # # ' 8 '
1# HF-' ' -8 ' 8X' ! H 8 +F ' EJJ#0'
-F-' '8#- ' JH EF-' ' JF)0' 8X'
+8G#a ' J < F-' ' 2#8 #G8 #- 'I'SF#' JF-0'
E8-' FX#2# +8-'1F8+8' # '<+ <+# '8X8+J# F

B,MC' ;2'@8'8' =2'8'5;'?' '(55=' , ''5', ' (5!'K'(!' !'4 '?!1!' (!'(2I' !' > # B' 2 '?4' !'248' ?(48 ' ! '
@!Z !' K' ;2'@8'8' 7584' M' (5!'4 ' ' !' !' '?!' 41'-' 72'' '(' '4 '?!' !' 41' ,M' 4;!'(' Z'4 '?!' !Q[088;'
1(5'<48 = ''5?';(5 '(5571 '(4 84' ;=1!' , !' *

A_K I 1 (' ! ! ' / (

- E F2# N# -8# ###' E -' '2
< 'd # 1# ' ' 8#2# D* < 22' # U' D)' + B '
' <D,E# #I' ' b' h h8HD) ' ' J
6?28 . #0D)' ' 1m D)#' JD)2+ D)' # ' ++F)1# '
M^' ' ' !' !' 8U# 9) ' J 0 J04'
#m?? ' 0 D)1 ' '
J ' U#FJ' #2 ' J ' ' 28 82 ' < ' <8J # '
R ' ') F '2 ' ' (' J #2 ' : J F#<
R< ' < # ' F# ' <8F# ' J < < E ' Dz ' '
H 9)2 ' 8D) <D < ' F# 8' < ' M(28 <#J '
< ' # # ' t ' ' ? ! F ' ' ' D)#2
<# # JD)<D)8#<<# < < ' +#H

8 ' EFJ F-' +#8 8 ' 8+-F-' JH2# F-'1#2#F-'
2-8JH2 #' 8X' #- 8 -#-' 8 ' $2 # #8#
8' JJ#-F-' ' 1+ +8' -F ' # 8 ' ' # 22 '
8 ' ' # JH 8 -# F-' ; 22#-' " 8 *F ' H 0'
E 8F-' 1#2#F-' +# # + 8# JJ#-F-' '
2##-' E 2 -8 ' < - SF ' + E# F-' 1F#--8 '
8#-' '1+ +8' -F ' & J E , Y' J +F-'
1#2#F-' 8 GF-#' 1#2## # ++ G[' - +8 F# '
JJ#-F-' ' $+ J8+# F-' <8+' E 2F ' 8++ '
FF#-' 2F 8 J #-' I - ' <8+' " E0'
+ F ' 1#2#F ' &F E G#' SF# - F2# '
<#F+ k' J8 8 ' F ' # E8 ' G8 '
, 8 822# Y' 8X' +# F ' + FF-' 8- '
R X8+J# F-' EFJ F-' ' E8 ' , ' +Y'
1#2# ' " 2E# ' 1#2## J +# ' 8G8' 0'
J# -' # ' 8G# 8 ' # +F# ' 8 ' JJ#E# '
& 2EF ' ' + ' 8G8 ' FG # 0'
+F ' R J#-8Z 8 +#JF-' 8X' F E#
' < J8' SF#8I# ' + EF-' # 8 ' 8G0'
2 ' F E# < - ' 8F ' , Y

B C ; '= ':78' <'5':78' 85;;488= 71' (2(;<('84' ' 65(1' @ 9?4;488= ' (" @= 48 (8' ;=58 '5 4:(5 !' ';4&' :(5 5 ' 45'1' .4 48' - 1# $ # ' '!4!' '5 2 '8' 4 ' 427; (5 ':78' 172<8!!) 0'5;' '5' .4 51' 35G78' ,?" = ?'5'8' 457 (4 ('=54' 8; '@ = 48' 5=8 "<27; 7(5 ' '5 4 ' X172=8' .4 48' = '5;'(71 '@ =7 '1 (G= '4 (' ;7G78674' @= 45 R(!' ';' ' E ' '(5" = =1 4" <2 71 ' (2'67" .4 41' 0':4 5'1 '4 ' (2(;3R84' 87;;X88= 41' (@@422(5 ' (2'" # 2 ' <'2'71' (425(1:=" B2'(45'(4' .4 41C' 4=?41' ' 72=' ?4;= (5 !' 2'(?471' I '(5' =55;3(?" < (41 ' '5?7:' (71' 0':4 5'(4' .4 41!' 55(248' 5'8<(2245848' (@@422(5 ' 4 ' 4=' p 72=' '58' 5' 71' <7'884' 1 4' <4 458' '(1 ' p78' = ?42:(;371' 3=?12' '8 '78' <'2'71' 8':" (251551' (?8;' ' ' 4 ' 7 ' .4 571' =1=5'1' '22" ;=5<4 4 '5'3'" '7 45 (71' 42'67' '?=544' =5;3(?78' (' < (4' 3(?(4=' 49(' (58' 471' 2'458':58' (?'?' ' 67" 471'=;;'?4 75 '(55=' , !) = ?42:(;371' :(?1" <'2'71' '(5" 54@= 41' '5' .4 71' 0':4 5'1' 5714 =' ;=22=;(5 ' =1548!) K' ' ' 3 ' # 8' 471' (@@422(' !' (5< (5;58' (??' 654' 1(5(1' 1'84 '& ;= ?'(1'@=@5''8' 0':4 5'1' 754' ' '5' 78' 6= ((1 ' 67(5?=' =15'@= 458' 478' # $ ' * 8 1 ' - ' A' < $ # ' G78' .4 '(8' @= 48 ('U' 87@4 ' '22(1' 4 (1 ' ;=5;488' !Q' @!' 0':!' L22= 4!' ' 72=' .4 '8' < $ # ' 155' 78' 67'567X' 7?(4=8' '22" 17o4 (' ?4<4 45 48' = '78' 0':4 5'(4' <'5':78' 49;4?4 4' G788' !' L22= 4' @!' 0':!' @!' ,Z!) :'' ' @ '?'4' ?78' 72'" (4 (!' (55=' ZZ' 3 '8 " ' .4 5' ' 7 ' (2'" =275 ' (55=' , ' (2'" , , ' :'8' '5' '71' *. 4 5" 4G78' (' @(5" =5;3(?" =:' 7' @4 45 ':58' '22'8' (:' =:' 7' 7 ' '?4 5 ' '(1 ' '!' ' @ '= " 845 45 '(' 8 (' ';3(42' I 24 ' '5' 2': =' ?4' 45 '71' 1 ' ('=5':58' '5' 0':4 5'(1 ' (:' (2 4 (' ' 4 5(;3" =5 '57(= ' 4 ' 4 4S '5=8' I 24 " '5' 55(2!' %' (!'] (!' 7;'78' @!' !' %'?4' '5< (' (55!' !

B C 045 ';=' 2' ' 1 @4 (= "] 4 1(5'1 ' 6741' 175?" .4 41' 0':4 5= 75' 55(248' (@@422(5 ' 85;;488' ' (55= , ' =5 (?78' ,?78' 6741' 3';' ' (@@422(' ' 4 5(4:78!' :'' ' 045 ';78' !' ((78' ?'4 58' 4 '=' ?78' ! 72'(8' (55" , ! J =' 1@4 (5 4' 075 (" (?' <'?41' ;=5 4 8" 875 ' 8 7?'=' 8= = '8' 871'] '8 4 ' 671' ' 4@:(5=' 075 (4' .4 " 1('1=5'=' G75; (' 4 (' 7 ' '5' : ?5!' ' 4:4 ' ' (55!' !' JJ!

" ' ' ! A__0
! !

9 2' ' ' ' ' ' ' G'
" ' !' d ' !' !' ' !'
; ' ' E ' , G'
' ' D)#I#8' Z' hF 2)# G 1#' 2 #!8 ' _'
'U_ D)82 1 c7E' ' ?2 <JD) #' H' : 8 h<T2' _
? 8' ? 28 J8D)J' ' ' << EJ' hF
2 J ' N' h<2T# 8' ' J < ' # DD< #eD)'
FJDDc228' ' ' 2?\<)# ' <8D)G' G+ #
<G9 ' #9# 8' _' _' D,' 2 <JD)H'
h 1 D)22' ' h 8#)' '
<)^' ?<' H' 0< 82D) #' , ' J8 JHJ' < J<8JH'
D)' F#' 8F#+E<<#E#G' <' H' #) #2G8
_' ' <8D) ' ###D)' F <' _' ' F#' , I#F#<8 #G'
J <' < < J' H8' <D#' # ' D)+' <' < #Y'
J<8 J ' #2280 D)<D)' ;29#h ' ' <2 h' 4
<YD)' # 8<< # D)82E' < <' F F' D)JH 8J' I#'
m#FD)#<J' _' ' I ; 2D)82 < # #Y' <DD # ' 8 <'
T D,# ' <' H' I2FD)#<J' 2 ' #' ' I' 8D) D)'
J ' A ' ' #28' #D)22F' D)# 82' FD)# 8' 2 '
< # J' <' : FE ' ' 28 8D)' <<
<8 JD)#' 8<' w' -bf <<# ' 2' < N' ~'
8 JD)' _' <8 D)8')$ 8<DD ' ' 2F8 ^'
< ##9)< ' _' D)<' <#<8' <##' <# #' Z +2#G2#' H' H8G0'
<D)' <' ' <D) ' ' f' U ; #982<F #G' '
#8< D)' <' #)#<<<8' ' f

9 ' 0 ' I#' 18+# ' F ' X I#' -' X I###' ? AB'
R&8J8 8I8 2#-' J#+JF##' #228-# -' I8+ '
J' XX#I' F-' J + * #-' & # #J 8
#J' <F-' H#--8X c2#-' 8- ' G +#F-' 1# F-'
YF m <' 8X' G8 # 8' 8' 82 + q'
1#2#F-' +J #' 8X' # -82 JH +F ' 8UF-'
1#2#F-' ' F-' 8X<FG ' J8 + ' 8 -'
<FE' #G+F ' JF ' <8+' & -28 #F ' SF#'
JJ#E#' 8 -' # #' FJ 22#F-' 1#2#F-' " + # #'
E8' +8G#8 -# F-' ## ^' ; - # ' !2 #-8'
8 ' 8UF-' -< 2# c ' 8 ' J F- # ' ' & 2E '
J G # ' I 7' #' 8' $+ J8+ ' ?/#2#F-'
82 +E #' -28 #F-' 8X' '/ 82 0'
+F ' I8 #' <+ 8E F EF-' # ' +8G# 8<1#'
/ 2G# -' Ed 8J' -T-8' << -F8+F ' / G# 0'
+IF ' 8X ' 8 ' < + # ' G8 #-' -F 8)' T 4J2#8 82 8'
F+8E G#' SF#' JJ#E8+F ' T#c ' # ' #<- '
2 J ' F #' E#I#- #' -< ## ' 9#2E #]1' ; #J '
> +2 E8 -#-' < + ' E8' 2#8 #G8 #-' <8+'
SF# ' c 8+ #JF ')$+ 82#F #' # 8+'
? FV+JF#*#' 8 ' $ ' G82E + ' <FE' + 0'
' 8 ' I#J +# ' < + ' 8- ' E8' ") F +J ?'
X8+J# S-' 2E + #' +T -c ' # ' # '
< - ' 4 #J +# ' < + ' E8)' ') +E '
X8+J# F-' EFJ F-' ' 1# ' JH E#' J< + '
2#8 #G8 - ' - F2#' -#E8-' U# 8 +F '
' 8#- ' JF ' < 8E ' # G8 8' 2# ' / '
' * 2 ' <+88J#<FF-' #-U +#J -' # 8+0)
) # 8' 8 ' SF-' <+-8J#<FF-' $ 8 ' JJc-F-' # '
812# ' 8 ' UFGF2 #' -F ' 8 E8 ' 8 < #8'
#' SF#' ' 8F #' +##E I8+F ' SF8' #E' 1F #'
#+ JF2F ' 8+# #' I# E#J #8) AY' & < 2Eo-'
' + ' 8X' + #-8' # #' 82+F]0'
G#F-' ' 8 +E ' 8X' + +# -' ## ' Z '

B ,C' 9 (5 ' (?354' (1 '5(' 65A?(1' : 7'4' =4 8 '] 7(5=' 14 ' =' (?8; '@ (' '5' =?';4' ': 41 ';= ! =V4584 '
8A;7G'9' ' ;7'' R 7258' 4<';'45 4' I '(22= 51' . 4 71' @ =8(@'(' I=8 *' I :@(5I' (2(; 3'8422
(55=' , , ' 5 R' 5= d ' '2?(8' =?(?'58 ' 67'' 8A;72=9' ' <'= 1 ' 5 4 4 571' <279' ' 555=1 1Z !67=' '5 4 (22=U!

W2 --' 0 9 2' H J D)#' J'

.8D)m 0 D 82D)' U' <8.'K # ## D)K' _'K' 2 #q0'

p' ' 8 J J' U 8.' _'K' 9+ D) ;#9#' ' ?'

m#D)?JD)# #' F D)2' H'h hJD) D)' U#' D)#<2

8I' #F'2z'0<2 #J JD)J' ' 8#22'J' F8' # 22F'

.D)8h82' ' D)22' .

D) #8.D)#'J U' 81#' ' 8#22?JD)1#' 29)'

0< FD)#h' 8< F ' Ye8#J ' K' 1#.D)#' _'K'

I?JD)' D)_J#' J2 J' #1' X)' ' U#JHX)#'

;2D)82 '. J'<' # #' 9 ' F' 92J9' <' '

)#9J <' 9# ##' !' A

AK' 9 ' 9'# J'# # 9#'J U'.9 ' 9

)8U' F 8' _' <89-' _'.9 ' _'#9#-8 ' _' <'

<#F' 9' 0<2 # J9J)' ' 8#22' _' 9' '

`2982S08JH' '# 9#21 '9' # 8' J' JF8' 9'

;L+' _'J 8J9J9<' 2 JJ' ' 9'

F#0' JJ9' J<'# 9# ## J' H#' <8J' # <'

9' .8<*60# 70J JJ9#')2 <' 9J 8J #9#22'

_'9 &9< 9' 9<' #9' # 9<9J' 2 '# F#<8 9J'

' 8#28' ' 9' $ '<8 #' 8<8' 8 9#2' _'9<'

<#<8' # <' ' 8J##922`4' ' < ' _' 9 9'

<9 9#<' ' 8 '_.#)29+ #9#J ' ;2F#<0'

J8<J9J' ' 9'<' '<9#2 8' _' ' f' '

9229#'? 2J 9J2#9J ' ? 2# 8< T' ' I;2 < '

<#' #9#<<#' # 88<' <JF<' A' F0 # B '

Y8< 9 2982<' '# 982 <9#'<'JG 8 #22

5 ;L' ' F2' #99#2#J<#' J9<' F#<' 128JH'

$2F'2 ' <<9# 8' 9 'F#' # F#<8 #!' J <FJ

924' # 22F-' ' +' 8X'1F F+ -' 0' 0

J# 8' JJ#- -'8- ' "8 +0G T2U228X' +8G# T'

JJ#-i-'8 'J F- -' ' F- + 2# F-' +80'

G#8 -# F-' 8 6' ' HG ?' ' # G ' ?

&F G 2F-' '& SJH E ' 8X' --82#-8' SF#0'

8I# 0) X8+J# F-' EFJ F-' '/2 H8+ J' ')

2' 8+#<F#' -#E8-' # 8 +F ' '

2#8 #G8 #-' EFJ F-' '& 2E

<+ J8+ '#' +8G# ' 8X<F2-#' ' 1 22F '

F2 + ' 8+ '7 !' 8++ '# F -' !'

/8J # #' I - '8 'J F- ' J 8' #I#0'

#-' & # #'<8+' ' +8JH ' 82-8JH0'

2 F-'<+ J8+F-' 8X' #E# 8' ## ' 20'

F-' 8X' /# J + +F ' E 8 -#F ' JJ#+'

-F-'8-

9g1' X8+J# -' EFJ F-' ' 1#2#' +# *'

F#' -#E8-' #E#V'8 ' +8G# 8'8 '& 0'

+F '8 ' G8 # '8 ' -- +# ' X8+J# -'

EFJ F-' ' /2 H8+ J ' ' # 2' 8 ' ' 1#2#'

82-8J 22#' 1#2##' 82+F G#' # ' #0'

E# # ' E =88' - F28+F ' -#E8-'8 ' + -#0'

8+F##' -F<+ 'G2 J#8 '# ' -F2 ' J #'

8 ' I - I8+F ' 8 ' $+ E ' # G8 -'

J '<8+' 5 G G ## J' 8' &F -8JH0'

2 #' 8 # +# ' 8 ' #<-8' JJ#- -' 8- ' E#8'

-8SF8 8' ' F+8E JH ' ' 822#' # ' E '

-F ' <8+' E 2F ' #ESF8' 1F#' G F '

#+ JF2F ' ! ' !8JH 22#' 8 ' Ei ' 1+ +8-'

8UF-' #'8 ' J #G8+ '8 ' "#22 0 # H' ,< +# 8+'

JJ#-#' +) Y' F+J8+ JHF-' 1#2' G 2#'

8X' #0/ 2G#a '# 8+18J -' 8- ' ? 2#8 #

G8 #-' &F 2# ##' 8+G# F-' ' +8' 8X

(578' '8 4' I 4=;3('5'@ ='8'5 =2("@ =:' (4' 4 '@ 5?45 '(' 424; 78'75(';=1' # # ';24 ';=' .41@7:2';(1'
?5=:78' (55'8' (?1'5'8 (' U' 78654' (?' (55!' , !' = ; (558' =:'' ' 5(;3= 4 (' '81= (4' (55=' !) 5 4 '1'
5@ 4171'?=1'5'71'8':"(= (4' "4 ' (1'8' ;=5 45?4:(7 ' '2'" '(5" = =1(4' ' .4 '8' =1=5'84' ' 41674'
'<'218' + @ @ $ ' 49' (45'1 ' 7@' @=8 4(' # $ ' E #' .49' =55(;'(4' 67= 71' 72 '178'
('87@ 41'8' 4 ':78'<(1'2'1'85(4' = ' '541'G ' 4' 14 ' ='@4 458' (1'8' @27 '171 ' ;=58'2'=' 1(9'14' @=224:(' '?4=67U'
85@ 41(1'@= 48 (41' (?4@ 78' 48 ' (55=' !

D) D)(' U9)' _' I# +# D) ' 2FU JH
' dF #2 # - ' J # 8JJDD7 JD)#'# ' I ; 2F#<8dD)# '
D) ' U ' J U# D)#< 8J I ' 82D) J' F# '
_' J U ' # E< #' J' # # 8J*9) ') '
U *I# Y) # F# ' 8 82' J < ' # *X) #<<J'
J#< ' <# JD) J ' ' <#< ' ' I2D) 8 ' '
I_ D)82<' <# 1I`2# # _' ' <# D) # ' <' #'
JD) J ' < <' <#<F' # #' _' JD) J ' <' <#<' < ' _'
JD) JH < '

9 2 ' m FDD <# ? ' < 8<JD)# ' <' 8<J J'
<J ' ' 8J' D) # D)#J <# #' F)<' <8 ' < J)JJ'
D) ' ' #22D) 0< J<' ' D)22D) ' J '
' #22D)' <D) J<' 42F' 2z' #J ' ' <#9# '
D) ' <<' J < #F# ' < <' <8# ' #D)' # F# J#< '
J <' X)< *) ' D) ' F 9 D)# ' <
#2' ' D) JD) D)' JF<' +)22' 8'
8 JD)# ' # J' <* #J JD*# ' <' ' F 0'
D) ' _' _ D)82<' # J' <# ' <J <F#) ' _'
D)' 8' F#28 ' ' J ' _' <# D)# # D)'
' #220 D) <D)' _' z' 8' JD)<JD)# ' _'
<# 9 D*2 D) 0D)JJD)' _' JD) ' '
F#<8J' 8' _2 2FD)# ' _' ' ! !' ?!' !'
! ' !' 2YD) J 22' 2<D)' D)' D)<F
<# <2<F ' H' 1 ; 2 82 <' 8J' D) ' D)#2#J<#'
I_ F#<J J z J' ' F 2 Z# ' ' <#J < ' <# <<D) J'
' ' #FD)# ' 2 ' $#J<#J' 8' _2 2' _' 2 '
J ' <' <) ' ' # # J ' 28#JJ' 2 - ' _'
J ' # ' #2 ' J < #J' <<# <#<' n ; 2# #
' < 8 ' ' ; 2 82<' J ' J <J #<' ' U 8

8-# 8' # 8+18J -' 8- ' FEF#2#G#F-' '
8+GE ' JJ#- -' 8#+F G' ' 82E + G'
28X' 2#8 82 -' 22# +F ' #I# ' # ' <8+80'
G+# # 8 ' + - +# ' X8+J# F-'
<+-8E +#F-' EFJ F-' ' -- +*8 -# F-' '
+8G# 8 ' F+8E G# +F ' - F2# ' # E8'
J < #I -' F2 -' 8 ' I F2 8+ I# ' F+JH 0'
EF ' 1#2#F ' &F 2 G# ' 8 ' #8+F ' F+8E G##'
-- +# ' 8 ' I - I8+F ' 82 JH0 # F E '
8 ' JJ#E8+F ' J F ' X8+J# F-'
EFJ F-' ' -- +*8 -# F-' # ' #0 # -82 JH'
E8<+ 8E I# ' +8G# 8 ' ' +# ' <+ 82# '
G8- ' <8+' F ' ' 82-8JH2 F ' 8G8 '
#E#a ' 8 ' <8+' 8G8 ' 1F F+F ' # 8 # 8'
#F- ' #' 8 ' <+Z2#F ' J + ' #E8 -8- ' <+ 80'
2#F ' J + ' +8G# - ' 8 ' <+ 82#F ' J + '
2#8 #G8 -

9 2 ' E8+#JF-' ' / G + # ' 8X' F- + 0' A_'
2#-' +8G# 8 ' ## ' # ' < 8 # 8 # ' < - ' -F-0'
J8< -' +E# 8-' - J+ - ' H E8F- ' *#2#F-'
" #2E a' $ +#J## ' 8X8 8 F-' ' & JH E '
1#2# ' " #2E a' $ +#J## ' X8+J# F-' EFJ F-'
' & JH E ' 1#2# ' +# #' -- +# ' 8 '
JJ#-# -F ' 2#SF# 8' -F#-' JF ' " E+ ' 1#2# '
&F E G# q' 8G8' 2#< 82a' JH E# ' 8 '
& 2E ' 1#2# ?' ! 8 J #' 1#2##' 2 8+ G#
8G8' 1F F+ ' #a ' 8 ' 82-8JH 22 '
1#2# ' 8G#-' +J + a ' 8 ' EF F-' 1#22#-'
F#28###' 1#2##' J +# ' 8 ' +8G8' 1F F+ '
22#a' " H+a ' 8 ' EF F-' 1#2*#-' J +0'
G# ' 8 ' 8G8' 1F F+ ' G JH a ' 8 '
J ' ' F#+8J' 1#2# ' 2F # ' 8 ' 2##-'
F2 #-' SF# ' F 8+ # -F## ' JF2F '
8-F' - J+#28G8' + < F ' #' 82+F G#F-'
' 82E + E' ## ' # ' <8+8G+# # 8 @'
F+J8+ JHF-' *#2#F-' &F 2 G#' + FF-'
8- ' #JH +EF-' 8X' / + < +F ' + FF-

; ' " ' !

!

1 ' #D)1 JD)#1#' U ; 2#h# ' _' O' J 1 JD) 1 ' J ' ' 1 '
1#8D) ' _' FD)1D)#28' _' J' D) 0'
8 ' 1 ' HFD)' 1#F# ' F)2 ' _' ' !'
EJD)2 ##' ' 1 #J) ' 1 ') 81 # F#-8' _' F2F0'
Df 1DD' ' #?' 8#J' ' J 0
J F# #+ ' 1 #E ' # ' "D)J D)#2' 4 ' J F 1 '
1 ' #X)# E' ' h)1# Eh' ' I)) 9821 ' '
;2 :821 ' 1 #' 1 F JD) '

AC' 9 2 ' ' !' ! ' ! !' FD)JD)2' ' F J) #J'
!' 2FD) DD#' 19) 1 ' , !' J1 FJ' # '
A2 2 ## ' ' F2' ' U2 # ' _' 1<2D) D)JD) ' '
822 ' 1 ' 1 8 ' w' ' !!' h J) ' H'
D)22' 8 1# E ' ' : #22# ' #J1 #FJ' '
? 2 2) ' ' J9)J F#' ' U2 #

AL' 2 J J ! ! ! !' ?22 2) ## ' #) #J1 #FJW)'
1 ' q ' ' E 2' ') EJ E E '

8- ' , Y ?' X8+J# F-' EFJ F-' ' ! # +#J ' 1#2# '
2 1# ' 8 ' ' & JH E ' 8G8' 8G# 8 ' # '
#E# ' F-SF8' E' ! XF ' 2 G ' 8 ' F-SF8'
0 G0 82 ' E 88 ' -8-8' << -F8+F '
8#-' #E8 -8- ' JF+F' 8 ' ' 82-8JH2 '
8 ' "J#-F-' 8- ' # #' 8 F-' 8X' JJ#E8 2#-'
#E# 8 ' 8 ' J8#-F-' 8- ' & J # EF-' 8X'
+8G# 8 ' 8 ' " #2E -' #2#- ' 8 ' 1#2#F-' " #2E 8'
8 I # # ' 8X' ' +#F # +F ' F 2 8 -#F '
8 ' 2##' F2 # ' 2 F-' ' +#JH ## ' 8X'
$8+ G#-8 ' 8 ' F2F 8H+ ' ' " + # H'
$+# J8<-') 28# H +F ' -8' F F ' JJ#EF '
+# F-' ?1#2#F-' H 2E#' ' + ' 8X'
1F F+F-' J# 8 ' JJ#-F-' ' 82-8JH0'
22 ' ' 82+F #G' 8G8' +F 0'
+F

9 2 ' ' ##' 18+# ' F ' <+# @+ F H 2'
'&F #J ' <#-J <F-' " 2F 0#+ +E8 -#- '
@6! # +#JF-' 1#2#F-' 2 1#' # I # ' '
8 ' / 2 J F-' ' 822#' 8X' +8G# 8 ' 8 '
2##' F2 #@6& JH EF-' ' G 2# J2#' JJ#
- -' S' 22##- ' ! # +#JF-' 1#2#F-' 2 1#'
+8E## ' ' ' , BY
0' 9 2 ' ###' 18+# ' # ' X##4' 2 1F-' 1#2#F-'
! # +#J# ' TX' & +F ' J < F-' <8+' H0

B C' 7227 1 ' #4 41 ' 5=1 '54' . ';3(?7 1 ' (5=8;75 ' (' ;'!' * =55(1 '" 4 =' '5 4 ' 7;48' 87=8' 5514 ((' . ';3(?7 (' < (41 ' $ # ' %'8;(?" 4 ' # ' . ';2'(?78' ' 79' = 1 (55'^' = : '' ' (55=' , !

B C' 0 = ;' (55=' , ' 5(=8' 48 ' '5' 0 ' : 4 5'(' ('(57(;= 78 ' ;7G78' 3 =5';=5' @ '1 78' (8'2'78' =3(5548' 0 ('=2&' ?78' 4?'?' ' 49' =?';4' !' (5;=<'' 4584!' 2= 45 '78' E ' =1 !' ('(57 1 ' 0 ' : 4 545841 ' (@@422(' ' 7 " 5= (5 ' 4; 4' E (?'5 78 ' =2 (578 ' = 4 '78 ' o4674' (2'51 ' (5 '67'= 41 ' 48 4 (' @ =?7;4 4<' @=8875 ' ('? 4 8('3' ; '@8' ' 45'1 ' 2= 45 '78' 4 5(5 4' '5' 5 2'(' 4@3(5= ' 4 ' ('(5" 2' =5';=5' ;=5 '55('78674' (?' ((5!' !' 4' ('(5= ' (?' (55!' , ' '567' J&&K' 0 = ;' (55=' 5(78' 48 ' ('(578' < $ ' @ = : (: '2'8' ;= 78 ' 47G78' 8 (?'4' K' 4 ' 2(: = 4 ' 3^;' 3 =5';(' @ 1 ;422458' 48 ' ? ;' ?' 4 8'8' 2' : '8' ;=(?75((Q) ; '@2= ' 3 5';" (' (' ' 4' (?' ' !' '5' ' : 2'= 3!' 7?2!' 4(?41 ' <4 4' ''(: 4<' (?' 475?4 (' (55! , !' K' ('(578' 3 (5= (@378' < $ # 8' A' ;=2 ''8' 5(78' 48 ' 67" 3 =5';=5' 3 =5';= 71 ' ;=1 @=85' !Q

(5(558' 4 ' =;'" 4G78 ' ' @ ' + # # ' ; ' ' 4 ' ' . ('8:=5(1 ' 454 55 ' (55=' M ' 5 " 5= (5 ' * E (?'5 78 ' =2 (578 ' 4 ' G884 !' '5' '1= ?''8!

3 =5';" 4G78 ' !' (5;=<7 458'8 ' 141 '5' ' 4 ('78'5' @''8;72R8' y?' '8' (54=<7 " ' @!' , , !' @ 'S 171 ' =?';4 (' 49 (5 41 ' '5' ''8(8=' ' (55';= ' '5?';(" =*78' 87@ (' (?' (55!* , !' &' [

" ' ! -

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U ' Y 8 ' ' JJ ' ' 8J'
_' 8' nn' #J' 8D)J' _' J2 # ## ' R E<2F D)' _'
J'? #+<8<' < J' #8< D)# ' 1;2 <J2 # ' <' # '
' q2 # #' ' #)#<<<8' #<' F' D) ' < '
2 # JJ8D)' ' ' D)# ' ' D)JD)# ' D)#<<'
_' D)8 ' ' <F#)#<J' <' #)#<<<8' _' D##< '
J# 8D#J'h< # 9)82# 0' ' <J8<J#)J' ' #D)820
<D)# ' <' J8 J#' ' ' D) E D)
J' ' D)J< #J' D)) D)# ' JD)J' ' 0'
,0 ' <' <8< F# 8' _' # D)8J' # ' 2 8<JJ#'
<' D)#22' ' J # J # ' #' #220 8# 8 0)'
,_ID)82J 2D)# #' ' 2 82 <# #' # ' <F#) <#' <'
22 #) ' # ' ' :J ' <' D# D)' J ' ' D)

9 2 ' ; !' ` ' !' !' ! !' 0<#D)#J JD)J' 4
M128#22' ' J J' ' < # ' #' J<#JD J' D) ' <'
#228 ' D)JD)22 # D)' D)' D)$ ' ' J<#J#)<2# '
_' < # #)< ' J# ' J<#)' ' <8<' < ' m1D)<D## '
h J#) ' <#' #<<<8' D)< D) ' ' F# '
?$)J <' F#< J ' D) ' <F ' '
?y2 #)# ' m2 J # D# ' _' 82<# ' _' '
' F#28' ' <D) D)JD) ' ?m< # F F ' ; # #' '
I_D)82 ' _D)# ' <' ' U;2#)82<' D)< J' F
' J <JD)#<' ' 8< D)JD) ' <' 2F#- 8 ' I2FD) <#

G V F ' ' # G ' 8G8 ' +8G# 8 ' 8 '
E8 8 F-' E 88' - 2I# ' ' I8-' 8 ' '
8SF -' 8 ' G2 E### ' +2F-#' 8 ' 1#2#F ' 1#+#'
' J < #IF ' + 2# -' G ' # '
-F2 ' 8 -8 ' # ' + +# ' G ' #'
J - #' -F ' X2' 8' G # F-' + +# '
8 ' 8EHF-' ' F #+J' 8X' + +# ' 8 '
$+ 8< -# F-' &+ J2# 18 -#-' F+J8+ JHF-'
' 82E + G' 8X' 22# +F ' ' '
#-' JJ#-F-' 8- ' <FE' J 228 ' 0'
+F ' $ JH E' '& J ' 8X'
/8+ G# ' 8 ' 8 8 HF-' 1#2#F-' 2[G8+#J# '
8X' 22# +F ' F F#-' IF2 8+# F-' J8J#0'
E8+F ' # ' #220!28 # ' 82J 2 F-' 1#2#F-'
82 +#GE 8 ' 1#2##' E8+#J# ' 8X' 2 #88'
+ FF-' 8- ' , .Y' J +F-' 8X' 1F F
+ -' J# 8' 8XJ 8J F-
9 2 ' ' %!' 18+ ' F ' XX### ' /2 8+ 0'
JF-' ' # 2' +8E## ' ' ' +#GT-# ' '
< - ' #228 ' JF2F ' 8-F' + < F ' -# F2'
JF ' +# F-' 8SF#-' 8 ' 8+ # ' E#8' < - 8 '
JJ#- -' 8- ' + < +' & 8H EF-' 8X'
+ +# 8' JJ#-F-' ' '/# J +##-' +# # #-'
<FE' < + ' E F-' !J+# ##' E #'
-J # ' 8 ' 21# ' 8 ' $2 # #8-' '
' E8I - 8' !< 2# # ' #E# -0' <8+'
82-8JH2 F ' ;#J +# ' < + ' E8' 820

Ngg' (42;=21 78' ' ' 2R2'78 ' . 49' 2:(5'^ ' 4 5(' ' (:' (55=' ' (55'8' 999 ' 5 ' '5' 4 4 4' ((2= =' '5'
75' : 4584' 4 8= ' @(!' M ' 4 ' '5' (1'54' 4 4 4' 0' :4 5';=' (@7?' 2(34 !' @!' ' 4 ' '5' . 4 !' 0' :4 5';(!' ! '
=24 =1 !' @!' 999!' :' 71' 4G78' 4<4 ' 2(34 458 ' 49' !' =?';4' 87=' ' 4 5(;3' ' (?' (5571' . 4 5' 4G' '8' 999 '
^ ^';=1!' ! !' '178' ' (674' . 4 5' (5578' <7' ' ' G79 (' 3=8 ' o4674' <(;'24' ;=5;'2'(4' @ 887178' BC=?';41'
5'?24'(571' 4 ' 2(:4 4(551 ' 5'8' <= 4' 2=;78' 87@ (' '5' 49 5 ' 8' ' ;= 5@ 58 ' 49' '5;7 '(' 8; '@ = '8!' %'?4' '5< (' (55&
&) (42;=21' ' 4 48';=224 ' ' 4 ' 4?'?' ' !' m45^(8) '?4' . 4 '(1' (G48 (41!' 4?' 54' 455'5(8' 4 4= !
2'(8' 4 (' (2;=2518' <'2'78' =5(2?' ' ' =571' 67'2=5(2'71' B'!' 4!' 71: = 71C' . 49 ';''G78' =:' 71' 4<4 '
R 4 5(;378' 87@ (' (?' (55!' MMZ!' ' (2;=21=' !' 1674' (;' !' ?'8 '5 74''?78' 48 ' (2;=2178' '8 4' =5(2?' <'2'78 '
(2;=2178' !' <'2'78' <' ' ' =5(2?' (2 4 '78 ' 4 ' =58 (5 '5=' 0 ' 87;;488' ' (55=' M ' (55'8' ''!' 78674' (?' (55!' M- !'
(2'^78' 2= '24 78' '567' ' (?' (55!' M ' ?175?71 ' 845'= 41!' . 4 41' 5 2'^' 71: '(1' :7'4' (24=21='
;=5;488'884 ' 67' (5578' <7' ' ?175?' @=8 4 (78!) (2;=2178' . 49' ' =571' := 4(''71 ' 67' =:' ' ' (55=' MMZ '
+<7'884' '?4 7 ' (2;=21' !' 49' =5(2?4' <'2'=' 4@=8!

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! !

H' D) D) D' ' 18 +F)< ' D)J -F#< ' 2,)' HD)8K 2#') 8#22 ' ' # #d# K ' D) E#2 ' _'# ' +' ' # d8< D)' <' 2 JH<#' ' M28 ' ' # 82d <' d + F)< 0 2D)' <# <8 # 8' ' # ' E#2 ' ?<FD)<J' D) ' ' JD)E#D)#2 # ') J #<' < ' !T ! ' A 28' ' I_E82< ' < <F +D)# ?' ' E 2d' J <J<D)#K # ' # D)J E#d# H' 9 E#2FE# ' < ' <8+E ' ' DDXD) D)# ' _' ' D) 22 D)JD) E ' d #9) 22 J' <' # ' , ' # D)< ' J' # T F#2 ' # 0JD)#<## H' JD)# ' ' DD F' R<8# 0 D)#7.' # ' 2 <JD, ' < ' H' 8 82 D) ' D)#JH<# # DD# # 9)<J) # J' B ' ' A R'R I; F<J D)KD)' # ?<2 d' <' #J<#FJ#)' # J' ?A2 2D)# ' < ' D)22 _' d dJEdD)' ' <##)# # < ' # ## H#) ' # ' } 0 + # # ' d ' d# ' < ' F# ' .D)#28 ' ' F0JD)2 D)# ' _?148D) ' ' 28 JD ' EJ)2 # ' ?2 DD72 D)#d <' ' 8220 FD)2D)*#d _' D) { ' ' ' # J' . ' ?2 ' ; ! ' d < ' d ' ' " 822 ' # ' dF d0 JD)dD)' _' d ' # D)JD)#' ' f28 D)' ' JFD!J D)#2' " J ' # ' JD)# ' ' 822 ' < ' ' D) 8 d # D)< d ' 0<8<#)# ' J8#eJD)

-8JH2 ' E#J ' $+ J8+ ' F # JJ#-F-' 8- ' ' 8+ J ' 8X' FG #-8 ' E8+#JF-' ') ' JJ#-F-' <FE' GE + # - ' <8+' 8EHF ' ' # 2 ' 8G F ' #E#-8' # 8 ' 82-8JH2 F- ' 8 ' $+ J8+F-' '8X0 0 0<F2-F-' 8- ' E' J##<# #GH ' FE F-' ' 0 82E + ' JJ#-F-' 8 ' ' 8G8' +81### 8 ' # 8 ' " 22# JH ' ' F +T 00000 H E8F-' 1#2#F- " H 2E# 1#2 [' U#J +# ' 8X' 8#a 0 # 8+1TJ F-' 8- ' ' 2+F ' 8G8' +F 0 H d+i ' 8 ' HFUF-' 1#2### ' G2 E# ' 18+ J8' JJ#E# ' ' H2F ' ; - # ' 8 ' - + G8-' +# F ' 1 J ' ' ! X #- ' -#X F2 JF ' & #-' &F 2# [+0& 2EF-' $+ J8+F- ' 8X' #E#W ' JJ#-F-' E 2 -8' ' # 0 + 8 ' ' 12# ' #2# 8' <+ <+# 0 0+@ HVE8F-' 1#2#F-' +J # ' 8X' # -82 JH +F ' 8X<F2- -' 8' +8G ' -F ' " 2# E 2 JHV ' #-' ; 8 ' #JF-' +#- ' 1#2#F-' # G# ' + FF-' 8- ' " + 2 H ' 1#1# ' F+JH E# 1#1## / 2 # ' 8+' ! #2+#J# 1#1## 2 *2 ' 8G#-' & +F ' 8 ' & JH E# 1#1## +# # 8G#-' #-8 ' E+ F ' 8- ' , KY' F F ' -8' # 8+1#J#F ' E i ' 8G8-' " 28 G# +F ' # ' 8 ' F0 2G 0 J i -' 8 ' -8 8X' ' 8 J ' H 2EF- ' 1#2#F-' 2G E## ' 8X' ' 822# +F ' F 2 8 0 -#F ' 8 ' X +' 8UF- ' # ' 8 ' 1#1# ' 1#1## " #2EZ0' 8 G8 # ' JJ#-# ' 1#2# ' 822## 1#1## & 0' J E# ' 8 ' ' 1#2##-' 8EH# 1#1## ## H 1## ' " J V+F-' 1#2#F-' H E8# ' 822# ' 8X' #' # 8 ' JJ#-F-' ' 811#8 -# F-

B C' 2'(' 4 ('] = =2(3(' . 4 '5(' '422"] 3 1 ?7:'' *b67" = : '' ' # ;9' ! ''@ 4 1 58' 0 '34 5'(0 55=' (' 84' !' M M' =;='87W (' (5'8' Z # (2!' ; = : !' <4 '(' 7 " 5= (5 ' %' (!)] = 1 2(2'(' '8 (!' (' " ; (87'5 ' 4 1 ;'' 8' 0 ': 4 52; '8 ' '5' '8 '8' 55(2' : 78' = ' ('8 ' ?4@2= (58 ' '55''' ' = 1 '5'; (5" (8;2'(24 1' Z # (2!' ('2 ' 4 ' =; ((1' (8; 2'('8' '5' 8=8 (4' 4=' (55= ' 84 (=8&' =5845 ' ' ; = ' ;2' =5!' !' '5' s=224 '=' 7 : 2'5 ' (?' (55!' M M' 4 ' 65'?('5' = 4 (' = 1 (2258' 5= 1 '54 ' ; 7G78' 4 !w' ; 72=8' %' ('8 " @(' 4 ' (??7 ; 5'' !' 0 84;' (5 45" = 1 5'(' 5=5' 5'8" 84 1 42' '5' = P' 8&(4; 72=&; =6&' ;7 75 ' 4 ' (557 1' M M' 49; 278' 4' ?48' 5(5 !' 4'] = 1 2('2(' 1 (' 4' ' ';'' '?4' U%' (!' (?' (@5!' ' 4 ' 67(M ?'; (' 875 ' 87@ (' (?' 4''5?4 1' (55!

9 2' ' !' + X#' F0 28# 8' HF#' | F#28 ' U#'
'D)<J 'J<#' ' # < D) ' <#22 '
#J<#FJ ' '# 9)< ' ' 8<JJ' <8 ' #)#J '
JD)J' ' F<JD) D)' < 'J8 8 #2' D)# 8' I D 0'
WD)22' v#' <D) D)#22' !' F#<' < ' <F#<J' 29#< '
)< ' ' ?y2JH' J2#D)JH 0' <#22 ' FJH' '
<D)# ' < ' D)XD) '_' ' D)# F)< ' 8J ' <8J2D)'
#J<#FJ' D)<' A2< <8JD# ' J ' 8F8' <F# ' _'
D)J' D)<<' <8J ' 29JJ DD<' ' # E82< ' J '
< ' _'J <' 2 #<J' < < ' _' ' <F8' <F#J' #<'
_' D)#' ## # DD' 2YFD)' <F #<8' ' D) ' JD)#2' '
D)$ D)# ' J2FD)yF)' < JE' <8+F)# ' _' 2F8 F#<'
<D)#<' #<F#' 2 ' J D)' <8 ' JD) ' ' # <F)# '
J <D)$ D)# ' D)<' D)# 8' _' J8 J D)<' 2 #<8 '
< DD# ' ' #D)#J +D)8' ' < <JD) ' '
1 - ; ' H' ' w' , D' ' !' , ' } , ' DD'
2 #9

b9)<# 9)#J' ' y9)#22' ' D)82D) ' <'
9) 8#<<' ' ' | <28 8' _' <DDJD)#<'
'# D#< ' 2D)' F#<' J D# ' # ' <#JJ' 1 ' JD)JH
#8# 8' !' #F' 2D)' 8' ' J 8 D)' J '
J82D)# ' 8' _' 8' JE<<D2# 8' ?y28 ' ' D2m8#22'
' c j ' <D)#<' J ' 8F8' ' !' ' w' ' '
w' , }' ' 8J' ' D)#

9 2' | H DD22'# ' , ; ##)#2<' H '# D)82 <9# '
< ' J8 8 #2' ' ' ' # DD< ' ' 82 ' #D) 1D, '
I_ D)820JF#28' << ' 4 2< D)JD)' ?!'

9 ' ' XXX#@ #-0 F-' 2& F0' '
/ ' 8X' +J 1# +#18' JJ#-F-' E 2 -8 ' " 8 F0'
18++8F- ' 1#2#F-' ! # +#J# ' ' F- + 2#-' +8G# 8'
J 2#-' JJ#-F-' 8- ' / 2 H8+ J' ' F+0'
JH E 8X' 2#8 82Z' G # ' 8G# 2EF-'
1#2#F-' E 22 8 ' 1#2# 8' +#' 8G#-' P 8+0'
1 +E# 8' JJ#-#' # ' &F 2# # ' E 2 -8 ' F F-'
1#2#F-' ! 8 ## ' 8X' ! X ' 8 ' & # 8'
' , _Y' $+ 8E ' J ' 8X' +E + J # '
<8+' ! # +#JF ' SF#' - F2# ' J < #I -' 8 ' I8-'
E8 ' $+18E ' J ' <8+' J +F ' '
82-8JH2 ' SF#' I - I# ' 8 ' 8 F--# '
! +EF ' , - 8+#F Y' 8 ' - F2# ' J < #I -'
G - ' 8 ' I8-' <2F+# - ' ' F +JF- '
' 8 ' #228JHF- ' I - I# ' 2F 18+ '
+8 E # ' 8 ' I#J +# ' < + ' 8- ' E8' 8 '
8 E8 ' E#8 ' ' &d 8 E ' ' +# ' # ' F '
<8+E#E8+# ' <2F+# -' H # 8-' JJ#- - ' 8 '
+ 8 ' G # +F ' -F2 ' , #- 8 Y'
I - ' ' / 2 H8+ J ' 1#2# ' + - #' 1#2##'
G#' ' # 2 ' 8 ' ' 1#2# ' 8UF- ' U' 8 ' ' 8E '
' 2
&# + # #F-' 1#2#F-' $ #E# ' 1#2##' / 82 *
8X' &8-# +F ' + FF-' 8- ' & -2G #F- '
8 ' 1+ 8+' 8UF- ' JJ#-#' ' +JH E ' 1#2# '
+#JJ# ' # ' <+ 82# ' #-' 7 1!' X8+J# F-'
EFJ F-' ' 1#2# ' J E #' F-SF8' 82 G0 G '
8 ' 2#SF F ' F2 + ' 8EHF-' ' # 2' J#+0'
JF#I# ' +#8= 8 ' I8+-F- ' 8 ' - F2# ' #228'
I8-' 8 ' ' J < #I -
9 2 ' & 2EF-' 1#2#F-' 82+F G#' ' A'
82E + #G ' 8X' 2#8 82-8' 22# ' JJ#-F-'
' J2#8 82 ' / # GF-## ' 82 F2#F-' <#-0

B C' ' (' ?4' (57 =' (5= ' <'2'=' V4 5' ' ; 7G58' =: ' 7 1' 55(248' %2 =5!' 4; 4' 4<4 75 ' (?' (1!' - ' (4 44'
; !' !' %'?4' 4 ' ' 4 5(; 37 1' '5< (' (?' (55!' !) 0 '8' 4 1 @= ' : 78' 48' 5 2'(4' (2?4' 7 : ((4' 4 (5 ' 4 '
; = 1 1 4 ; ' (' ; 7 1' 0 ' : 4 1 '8' @454' '5 4 ; 278(' (5'8' ?= 1 '5(5 ' : 78' '5' 5 2'(!

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' !

' ' ' ?! 8 8' -82z ' 9' 'D)XD) D)# '
J ' < ' 2 # 8' ' D)# 8' 2# hW)' D)#<8 < #J '
I #F#<J8<JDD)J' ' 1;2D)82<' h ' hE22' 2 ' :J ' '
;2 82<' ' ' F h9' ' #D)< ' ' #D)' <D)+ D)#<
' ' ' 8' 8#22' #' F ND)' <F' ' D)# '
<# D)# E' I_2F D) ' !' f' ' # F# J ' #22I '
)F# 8<

9 2 ' h' <#E' F<JD) ' ' # E 82<' # ' < '
F# J' :J ' ' D#82<' J <' # < D) ' '
8<<,)#.T' JD)2 ' _ ' ' D)# 82 D)# ' < '
D)8.D)#<8' _ ' <7 ?)8<JF2' _' ' ! !' :J 0'
F<' ' F#<8hD)#.' < ' #D)<<D)#.8' ' f'
_28 D)J' D)< D) ' E' JEh' '
<EJ<' #E<' -E E#2' $ ' 2E#.# ' y2## 8<-8 '
< ' 8#8' K.' EJ ' 8J ' #2# ' F' E' J <0'
JE#<' <E8 ' ' 28#<#.' _' # F#<8 EJ ' J'
F#<J8<JE#.' #' <EJ<E#J ' _' JE#-8'
E#28' FE#<2# @)y28 ' ' qm<2E#J JE#. ' '
') 8#22' < ' q 2#2' ' J8< E#2' E ' E#<' < << J#
#E<' <8 E# ' E' . # ' qm< .8<JEJ' '
q 28 E' < ' <8<2F#<.' _ ' ')#EJ <EJ ' ? 2< E<0'
<EJE' ' E< E ' ' <8<E# 0# E EJ ' ? 28 0'
.F<' ' JEJ E#2 ' < ' K ' 2 J E' 28 ' # E<

CB' 9 2 ' E820J 2E ' # E8JE' < ' 22<E#< '
< E ' #E<JE#<' << ' F#28' 8- ' 6)2# 2E# '
' #J<#FJE' # < E ' ' EXE E# ' EJ

J <F-' +E JH F-' SF#8I# ' F-'
$ < ' # ' ' SF#8I# ' , CY' /F2 # ' # '
! X # ' # ' F ' <2F+# #' J F- #' 8--8 '
+ J# ', LY' F#+J8+ JH' ' 82-8JH2 '
8XJ 8J F-' ' J + ' 1#2# ' 82-8JH # '
'&F E F-' JJ#-F-' ' 1+ +8' -F ' 1#2# ' # 2#'
'&F E#8 ' E+#F-' ' # G' 8X' 1F F+F-'
#88 ' JJ#-F-' 8- ' 1 #2# ' 22#GF# #+
9 2 ' ;#J +# ' < + ' ' F+JH E ' ' 820'
-8J 2 ' E8' 1 #2# ' J +#' ' 82-8
JH2 ' 8 ' JJ#-#' -F ' # #' ' 8++ G#F-' - +8 0'
FF- ' 8 ' ' E82 ' 8X' G +# 8 ' 8 '
8X' /8+J 2# 8 ' 8 ' 2##' F2 # ' J +F-'
' F+8E #G' 8X' # ++ G# 8' JJ#-F-' 8- '
I J # ' F E# +F ' P 8X1 +E# 8' <8+'
& JH EF ' 1#2#F ' " #2E-8' $ +#J## ' < - 0'
SF ' # F#--8 ' 8G F ' G8 # 8 ' 8+0'
G# F-' 8X' 2#-8' ## ' $+ 82### ' # 8+' 2#0'
8 -8- ' # ' SF ' JJ#-#' -F ' + 8 F-' ' 28+# '
8 ' F+\E JH' 1#2#F-' F+J8+ G# ' 1#2##' " #2E -'
$ +#J## ' 8 ' <2F+8-' 2##' #28- ' 8EF-'
1#2#F-' /2 H8+ G#' ' # 22 ' 8X' 2#JH# 8 '
' G+ EJ8IF-' < - ' < 8 # 8 # ' E8'
<8JJ #- ' / G + JHF-' ' 8EH ' 8X'
F+Gc +F ' 8 ' /# J + J +F ' +E-+] H8 0'
-#F ' JJ#-F-' ' /8+ JH8 -# F- ' 8 0'
GF-#F-' ' H #2 ' 8X' G # +F ' JF-'
8 #-8 ' JJ#-F-
9 2 ' 2J 2 F-' 1#2#F-' 8 8 H# ' 8X'
2 # - ' $+ <##G +' +E# F ' JJ#E8 0'
2#-' F+ < -' #F- ' ## ' ,B Y' 2 1F-

B C' (@(' =3(5548' 9'9 ' ;= 5=145 =' ' (55=' , ' 424; 78 ' =:'' ' (55=' (4 (4' ;!' , ' 5 "' 5((" ' 4 J'
''(;3''8 ' L42' ' 7 ' '5' (=5'4!
B MC' (?41 ' <4 4' 3(:4 ' (?455?41 ' (555'5' 3 =5!' (9=5 ' A' 0=;' (55=' (@@(5' ' ' 5'8' '224' L2 ' (2'458 ' 65(241 '
A' (5 4(' 541=' 7567(1' 141'54 ' Q' t ;!
B C' %'?4' 67(4' ?4' ?' 4 8'8' (42;@21'8' ?'9'178' 87@ (' 5= ' -' @', !' 2(34 478' 49' 87=' !' =?';4' ' 4 &'
5(;3' '565') K' 55=' ' (2;=2178' <'2!#4554 3' ' 87@ 4171' = ?'571' 2:(5' 4' (@7 ' =:'' Q' @!' !) .4 5(' '
541@4' (55'8' 999 ' (:' (55=' !' 7;;488' ' 4" ' ' #\ ' (:' (55=' ' (?' (55! ' F' 67=' '11(7 (

" ' ! AC.
! !

' ' ($)$#%#' # '# ' *# + &' #
!8 82' !')#) I' F### ' ' .D) #2' .')<<'
1J<8# ' ' <8<D)# ' J8)<J ' E0# 0 # ' '
!' ' ' + J 8JJ' '? 2- #_ !' '
1JF D)# #.8' ' JD) ' ' ' F#8' '
<' F<' ' !' !' A' #' ' #J<#FJ' ' <'
.# D)' <E <' ' ?<#D) # 9J9 ' <' J8D)<J ' <'
!' !' f' n_' <' 8 J' ' <2z#J 29#.' <' '
<#F# ' <' !' !' A' FJJ' ' ?n'J # ' <'
I DXDD ' #

9 2' < 8D) ' ' ' F 2' <' 2 #-8 ' ' E22'
2 ' J ' ' <D) <' J <' ' D)<' 8'
n` D)82<' ' #) 82<' <' <F# JD)# ' ' # < '
2 ' 8 ' ' GJ ' ' J# J J#)# G' ' JD)J D)#2_'
<9)# ' J 2 J' ' H ' ?n<2D) D)JD) ' <
T 82 ' F J' <8 ' <F #<' <') 2 #J 2D) JH'
' #F<JDD E' ' 8#22 ' <' ' # ' JD) '
' q<F)# ' <' D## H D)' J8# <J) J' # < D) ' '
<8<9# ' <8< 8' n`2F<8' JD)J ' <2z#J ' JD)# '
_' ' `_F#<.F< ' <' ' 2 <J #<

1#2 #-' !# +#J#' JJ#- -' ' ! X #-' EF ' #+8'
' ,B Y' !F 8F-' 1#2# -' 8 8 H#'
8X' & 0 # 8+ + ' ,BAY' + FF-' 8- '
#8 -8-' 8X<FG ' E F ' J + '
J 8+I W' 8*1#8 -#F ' <FE' 0 2F 0 J0'
#-' F #' J8J#E8+F ' 1#2#F-' 8JJ#' ' GE '
8 ' 2##' #28- ' &F E # G8F-' 1#2#F-' & 0'
JH E#' E8' #' ##-' #' 8 ' 8X' J#U8'
' -F#-' JJ#- -' 8- ' ,B Y' #' 8 ' ' !# +#J '
'/2 G ' "#2E -' $ +#J# -' '/2 0'
G ' 8X' 8*1# ' <8+' E 2F ' JJ#- -' 8- '
F#+8 E JH' '/2 H8+ ' 8X' ' <#F # 0'
+F ' <8+' E 2F ' JJ#- -' 8- ' F F-' 1#2#F-'
! 8 #' 8X' ! X F ' + FF-' 8- ' ,BBY
9 2' & JH EF-' 1#2' &F 2 G#' 8X' .
G8 # -' 8XJ 8J F-' ' & JH E ' 1#2# '
"#2EJ8' $ +#J## ' 8 ' ## ' # E8' ,B.Y' 820'
+F G' ' 82+F #' 8X' +#)# +F <8+'
8EHF ' ' +' JJ#- -' J F- ' H E8#'
1#2##' H 2E#' 8 ' +# #' !J 2 JF-' #' 8'
22F-' '/2 G ' 8X' 811#-8' '
1 #2# ' <+ <+# ' JJ#- -' 8- ' /2 H8+ JF-'
1#2#F-' F+JH E#' ' # 2' 8X' 2#JH# 8'
+ FF-' 8- ' & JH EF-' 1#2#F-' /2 #

A (4' (' 87'8' =; ;'858' 48 !Q' 7 ' '5' (?';4' @ A?'; =' (55=' M'G59 (' 5= (8' # ' '5' =?';4' =?24' (5= ' 84?' (55=' '
G79 (' 5414 =8' . =1 (5=8' '5' 49 7' 4G58?41' =?';'8' 67':58' (?3A 45?71' 48 '7 ' '5< (' 5= !' - !' 4' =5;3(?='
2: (5'A' . 4 4' '?4' '5< (' (55! !
B C' 12(<" 54;41' X<X (5 ' ' ' (!' @(' 4 ' (?' (55!' !) %'?4' 3 =5!' (9=5 ' '5' 5?';4 ' 4 ' 67A' ?4' ?' 4 8'8'
12(<'8' (55= (1 78' '5< (' (?' (55!' Z!
B ,C' 0 @0 "\ ' (?' 2' 4 (1' 2'45' 45A' 0':4 5'!) '!' 4!' (5' ' 4 ' = V4 ' ' 67' ' 42' <4 =' 42' 4?4 4'
@ = 488=' 41 @= '8' 84?48' 8':" <'9(8' 4 ' 8 (:'248' '5' 0':4 5'(' 42' '5' (?G(;45 ':78' 5872'8' @((4 55 ' 4 ' ;71'
4 78 '8' '5;=2'8' 2'5 7(' 1 = ':58' 4 ' . 42' '=54' 3 '8 '(5(' ;=(274 4!
B C' . 4 48' ?';4:(5 7 ' 4 '(1' . 4 =2" 172 ' ' 2';4 ' 87:?' " 87@ 41=' . 4 " = '5;'A' ;7" ':7 (' 8=2 4 4' 4'
(1 ((' 1 (57' (79'2' (' ;=5?544 4' ;= 4:(5 5 !
B C' (57 78' (578' 745" ' '2'78' 8' 4' (57 78' ' . 49' 5 2'A' =:' ' ' G79 (' 55(2!' 2 !' (55=' - ' A A!'
;!' '7 ' '5' 3 =5!' (9=5 ' (?' (55!' '8 71!' %'?4' 87@ (' (55!' !
B -C' s7A' 3';'5((5 7 ' (?' (55!' & - ' 5((5 7 ' (' ' !' (!' (?' (55!' !' ((5 7 ' @(' 4 ' 4 ' '5' 2 =7'&'
458':58' (?475?41' (55!' !' 55= ' '1' 846' '45 '71' 5714 ' ' 2' 4 '8' . =1 (5'8' '5' '@8=' ' 4 @(;3" 49 7' ?48' 5(' '
8('8' 87@4 674' '5?';(5 ' (5571' A A' !' ' ?44884' '5' ' 41 (;3=!

- " ' !

! !

' # #E< D) ' FEh1Z' ' JD)# .' ' 2 <JD)
' D)22' Y_D)82' #F) ' #+<#FJ' '
?* 2z## ' ' F2' <#-#' JD)<' F#<' _'
EJH0 <J JH' <E' <#-#' <<D)# ' ' #J0'
<#FJD)' D) +g)< ' ' #J' .2F# #<D)# ' <8J0'
#

,&88- ' -' K ' -F<<28 EF-' 8X'
F 2' 2 #8 -# F-' 8 ' 8X' #I' G Y

_' 9 2' ' " !' D)J D)2' ' <F d<#' <'
9)<JD)#<' <' ' 8D)JHJ' F#' D##2#S 8' J D#< 0'
F#J2F#' F F 2F# ' ' <D# D # ' <' <F#<J'
2 #<.8' J' A' < #<J2D##<.8' ' D#< D## ' _' '
2 <J## '2D#' F#<# F## ' 8' D##2 D# ' <#D# '
H' 2#F#82<' ' D#22' 2D#' : F8 ' ' F#82<'
8< F#J # ' . D0J J' A' <D#' #J<#FJ' ' ?m<#D# 0'
D#JD# ' ' F# ' <#E# 8' ' ' _D#82 <' '
++F#< ' 2D#' ' D# F# D# ' .)))' 8 -8 '
' 2 D#2.D## ' <' ' J822' D#< ' ' #IF#JJ## '
_28 D#' ' JFD#JD##2' I_F#<.F<' ' J 8 8 E ' <'
' <# F#< <D#JD#' # ' ' ' <##22 ### ' _'
< < D#' ' D#<JD# D# D#< ' ' J ' ' <#22

8X' 1F F+ -' 8 +##8 ' ,#' 8 ' #F-' # 8+0
8Y' JJ#- -' ' +81 8 -# F- ' F+J8+ 0
JHF-' '/2 H8+ # ' 8 ' # 22F-' 1#2#F-' F+G#0
-## ' 8X' 1F F+ -' JJ#E8 2#-' J# 8
JJ#-# ' E8+#JF-' 1#2#F-' 1 E8#' 1#2##' +0
J # ' 8XJ88J i -' ' 82 ' ! # +#JF-
1#2#F-' 2 1#' + -#I# ' 8' +8G ' -F ' F2 +
+8 ' 8 ' JH0 +J JH' 8#' -FJJ8--#
" E1+8EF-' 1#2#F-' ! # +#J#' JJ#- -' ' " 8 F
18++8 ' # ' +# #

4J	M'	V'	U'	U'	EB
4	4	4	4	4	4
40		A	A	A'	A
	A	A	A	A'	A
A	A	A	4	4'	4

9 2' ## ' ' XXXI ## ' ,BKY' 2EF-' 1#2#F-'
E8+#J# ' 8X' JJ#E8 #-' J# 8 '
+8E## ' 8' <8+8G+# # 8' +E JH ' F0'
F #F-' ' ' 8X' P 8+1 +E#4 '
JJ#- -' 8- ' P 8+1 +E# ' I - ' 18++8+h'
12 #- ' ' &# + # # ' 1#2# ' 82 # '
/2 F-' ' 82-8JH2 ' 8XJ 8J -' ' 0'
J + ' ' 82-8J 2 ' 8+ 8J F- ' $+
J8+F-' E#J -' JJ#- -' 8- ' ' ! # +#J ' '/2
G ' E8' #' ##- @ +8-' ' 82E + E#'
JJ#-#' ' ' E ' " #2E -' 8I# F-'
1#2#F-' 2G E## ' 8X' ' 822# +F ' JJ#
- -' ' 1#2##-' 8E# ' 1#2##' F 2## ' F+G#0'
-#F-' ' J8 ' 8X' &# + # # +F '
+ FF-' 8- ' +8-' '/ 22 #' 8 ' / #0'
JH ' ' +J E ' JJ#-#' ' J + '
E 2 -8

B C' 59 (' ;3((; 4 48' ' '5' ;=?' ;4' =?24'(5=' !' 4!G79 (' 5= (8' (55=5'1 ' '5;'@'45 '(1' (' # (2!' (5!' 3'4' 48'
(5578' A A' ;=1!' ' 84?G79 (' 571X =8' . =1 (5=8' 61' 8''1 '2' 4 '@(o 4 ' '5' 49 = ' 4(?41' 1 (77 ' 8; '@ "' 875 '
(5578' 48 ' A A ' ;!' Z!' 7 "' ;=58 (' 45' ?'; '88 ' '5' 5= (' @ 4;4?45 4 ' 4 ' ?';45?'8' (?' (5571' -!

9 2ˁ ˁ " !ˁ 9)<ˁ D)<8# ˁ D)J0ˁ # D)<JD)# ˁ wˁ |ˁ D)< # ˁ # 8 ˁ #ˁ 8 JD) ˁ <ˁ D)'28## ˁ ˁ 8< D)0 ,)#2ˁ EJ ˁ ˁ |82 9)ˁ _ˁ FDDˁ U; -)# 8ˁ # 0<8#2ˁ #D)<D)# ˁ 2ˁ ˁ #<ˁ # ˁ <ˁ JF#J8JD)<ˁ D)# #ˁ _ˁ #<28ˁ |82 D) <D) #8D) ˁ < D)#ˁ 2ˁ <E#< ˁ ˁ . 6)' ?0 J J F<ˁ ˁ ylg)82< <ˁ 8 ˁ _ˁ # F2J ˁ JJ#<#ˁ ˁ ˁ D)#28 D)# ˁ D)E# #J ˁ FD) Fˁ <ˁ _D)XD) ˁ _ˁ JDDˁ <ˁ)<D) #Jˁ Fˁ D. J <JE#<ˁ #28ˁ # ˁ JD)ˁ F F#2# ˁ H ˁ JD) D)ˁ <ˁ ' D) ##D)ˁ D)#<2ˁ D)< D) ˁ ˁ Hˁ H ˁ 2# 8< 8 # <ˁ 8<JEˁ # <

9 2ˁ ˁ W ˁ !ˁ 2D)J ˁ <ˁ <8JD) ˁ $$ Jˁ ˁ | + # 9)22ˁ ˁ | JD) D)ˁ <ˁ ˁ qm<D)82D # Jˁ fˁ Pˁ ˁ ˁ ?m<8< D)82ˁ <ˁ D)ˁ < <JFJ)Jˁ | JH) ˁ 8< ˁ ˁ q22#<Jˁ FD)22D)# ˁ ˁ m2FD)#<Jˁ <ˁ D) D)ˁ <8< 8ˁ F)< ˁ HD)8 ˁ ˁ : J D)8<ˁ <<#D)ˁ 2 D)# ˁ D)D)J D)#<ˁ _ˁ D)ˁ <ˁ D)#<< <ˁ J D)<ˁ F#28ˁ ˁ Y J D) ˁ <# 0ˁ 1 #F#<8 D)Jˁ ˁ ?<#D)#J JD)# ˁ F) 8#22 F)< ˁ ˁ F# ˁ 2 <D) D)ˁ # Jˁ U FE# H<#ˁ <ˁ <8< ˁ F# 8ˁ Jˁ fˁ #F ˁ ˁ | JD) ˁ 8ˁ <E8<ˁ <<ˁ _ˁ J 2E# ˁ ˁ <ˁ 2 #<Jˁ D)ˁ _ˁ ˁ < #J D)Jˁ DDIJ DDˁ | JD) ˁ ˁ . #2)ˁ <D)J<ˁ D)#< <#ˁ 2 #-8 ˁ _ˁ <<ˁ 9 ˁ <D) ˁ 8<ˁ <FD)#<8Jˁ 82#28ˁ <8J<8#J ˁ 1; Jˁ m F#<<8ˁ <ˁ J8 8 #2ˁ <F)8 <D)ˁ D)< ˁ2 ˁ<ˁ<8<JF2ˁ 1;ˁF<JD) ˁ<FDD)ˁ 8ˁ D)#2<ˁ ˁ D)22

9 ˁ ˁ XXX I ###ˁ +ˁ -FJJ8--# ˁ JH0ˁ Cˁ + +J G# ˁ 8 ˁ J+ # ˁ I - ˁ 8- ˁ ˁ 2#8 #G8 #-ˁ EG 8 F-ˁ ' 8 J ˁ 8Xˁ " 28 G# 8ˁ J < # I F-ˁ 1 J F-ˁ $+ 82#F ˁ (8+ˁ &82 I # # -ˁ 8 ˁ ' # -ˁ # ˁ 18- # I # 8ˁ # 0ˁ + #ˁ # ˁ 2F ˁ Jˁ #-ˁ # ˁ SF ˁ J8J#E8+8ˁ <2F+# #ˁ 8 ˁ I #J +# ˁ < + ˁ 8- ˁ ˁ &82 I # ##-ˁ ; - # ˁ 2F ˁ + +E# 8ˁ <8+ˁ " 28 G# -ˁ 8 ˁ J +F-ˁ ' 82-8JH2 ˁ #+#?F# ˁ # ˁ 8 -ˁ 8 ˁ F2 #ˁ JJ#-#ˁ -F ˁ ˁ " 28 G##-ˁ $+ f0ˁ 2#F ˁ(8+ˁ F F ˁ,B_Yˁ 8G8 ˁ! X F ˁ 8 ˁ ˁ, H 8 Yˁ 8G8 ˁ/+ J +F ˁ# ˁ SF ˁ JJ#-#ˁ -F ˁ #228ˁ JF ˁ ˁ , H 8 Yˁ FEF#2#G#F-ˁ '& JH E ˁ 8Xˁ 1F F+F-ˁ --82# -ˁ JJ#-F-ˁ ˁ '/ 82 ˁ ' 8+0ˁ G# F-ˁ 8ˁ 811# 8ˁ JJ#-F-

9 2ˁ ˁ XXX#Xˁ F ˁ J ˁ 8Xˁ +# 0ˁ Lˁ F ˁ Sˁ -F#-ˁ JJ#-F-ˁ 8- ˁ & 2EF-ˁ #2ˁ & JH E#ˁ 8Xˁ '/ 82 +F ˁ JJ#- -ˁ 8- ˁ ˁ & 2E ˁ '/8+G 2ˁ 8G8ˁ # # F ˁ G8 # 8ˁ & 8 EF-ˁ 1F- ˁ 1#2#F-ˁ +4ˁ HF+#ˁ I #2 SF#ˁ ' F +J ˁ 8Xˁ 1F F+F-ˁ +81 # 8ˁ JJ#-F-ˁ ˁ 8EH ˁ ' + ˁ EF ˁ 8--8 ˁ # ˁ # F-ˁ $ +#-ˁ -F# ˁ 8 ˁ 1F# ˁ 8Xˁ ˁ +#8 2#-ˁ J*-8ˁ #F-ˁ & 8 EF-ˁ #- 8ˁ F+8E JHF-ˁ 1#2#F-ˁ /2 H8+ JH#ˁ ' # 2ˁ JJ#-F-ˁ ˁ ' + E##-^ˁ /#2#F-ˁ E8+#J#ˁ 8Xˁ /8+ G# 8ˁ JJ#-F-ˁ 8- ˁ X8+J# F-ˁ EFJ F-ˁ ˁ& 8 E ˁ1#2# ˁ "#2E-8ˁ $ +#J##ˁ JF ˁ -- +#8 -# F- ˁ 8ˁ G8 #0ˁ 8 -# F-ˁ J F--#ˁ EH ˁ 8ˁ F-SF8ˁ $ 8 ˁ ˁ& 8 EF-ˁ 1#2#F-ˁ "#2E-8

B Z Cˁ =5ˁ (' (ˁ3';ˁ ?4ˁ (57 =ˁ (5= ˁ ?4<554 =ˁ (55=ˁ ˁ 84?ˁ <= 4ˁ ?4ˁ =5 (?= ''!ˁ 1 @4 (= 4ˁ 4 1 ('''A ˁ ;7" #''?=2@378ˁ 5 55?'A' . 49 ˁ ;= =5(1ˁ 5(1ˁ 1= '458ˁ ?48 '5('H ˁ (55=ˁ ˁ G59 (ˁ ' 4:4 251 ˁ 65" '565' ˁ 3=541 ˁ8' " ?=541 ˁ . =?72@3" 8= = '8ˁ <'2'51 ˁ '?ˁ A 4ˁ <4 45 41 ˁ ;71ˁ (ˁ =5 (?=ˁ = ''!;'(1ˁ '8 (1ˁ '1 @4 (4ˁ 5465'884 ˁ ;=5 (ˁ '2271ˁ :422(884 ˁ 84?ˁ (@7?ˁ (51ˁ '; 71 ˁ 1(5(ˁ ;71ˁ 8 (4ˁ (5;= 51 ˁ '5ˁ (;'4ˁ ;4;'?'884!ˁ 5571=:' 7(241 =5 (?' ˁ =2'8ˁ ?4<4; '=ˁ ?X8' 5d ˁ rˁ ˁ / ˁ %@ˁ #ˁ ' \4 =' !lˁ '5ˁ 55(2':58ˁ 5= ((' 4:4 ' ˁ 4 ˁ 04 1(57' ˁ 4 ˁ '5ˁ =; '5(ˁ 41@!ˁ 4 (' ˁ (?ˁ (55!ˁ !ˁ M ˁ (5551ˁ 541@4ˁ , J&@=8ˁ 3=541ˁ =;;'871!

ACC " ' !
' !

$ +#J## ' !F<+8 F-' 8X' G8###w' 8 '
-- +#w ' 8 ' G w'< + #-' # 8+ #w ' ## '
/#2# -' --#' 8X' /# JH+ JH +F ' JJ#- -'
' 8G8' /8+J 22# 8 ' +JH E -' 1 -' 1#2# -'
82-8JH2 #' 8XJwJ -

B ' 9 2 ' h JHD)K ' ## D)F#' 9I# Y##
F 9)JF<9' 8JD)J8' _' J' f' h8<#+F)8J' 2'
8 #2#' _' h#m0#1#J' hF)<# JE' _' I;2F D)' # J 0'
8 J' K 9<.D)# ' 2 ' # < #J' 8' I_2 #2) '
h ' <#' ' J8 <82 ' _' J2' <' ,_ 8 ' _' <F#J'
<' K ' <8#JH' <' ' <J #.# ' <<J8J'
2 J < #.' <#F# ' h ' 2 <J ' _' < # ' h '
0<8< # ' h8 ' ' hF + #J' <' <8<JF2 J'
h < ' h ' F J#<' <8 ' J ' J#22#0'
h8< h' h ' <#<<8h' h ' . D)22 # ' _' h ' 8'
<# ' < <' ' q< 82 ' _' 8' ?< 82 ' h <0'
' h

B ?' 9 2 ' 8+8' !' !' ' !' U;2F#<J8<J ' 8'
. #22 ' < J<' 28#J ' <' <<' h ' < ' K ' F# J'
<8 ' <' h 2F ' ?< 82 ' ' <h ' <' $'
h ' 22' 2 ' ' hF 2 # . ' <8 J 2 F# '
8 h<82' ' F# ' <<J8' F<J << #.' '
F<J ' ' hF 2' J <' <#<' <' < ' J#22'
1; 2 < J' J ' < <. <pJ' <' <' # '
h 22' <8 F#<' <' ' ' J8 <82 '
FJJ8' ' hF J ' <' 2 # <#' _' 8' _' #20'
2# J' 8 ' h < ' <# F2' h ' 8' : # ' ' - '
1;2 J F ' ' 2 ' _' < ' < ' 8#<8 ' <'
' < J' 2 ' ' < 8 # ' _' <#<8' <

9 2 ' & JH E -' 1#2# -' +# #' 8X'
2 #w ' # + ' w 8' ' - #-' JJ#- -' 8- '
,BCY' &8+ 8JH' 2 w' #228 ' 8 ' &#-8+ '
&# + ' 8 ' G ' - 8+# ' J 80'
J# ' I - ' ' &# + # # ' 1#2# ' 82 # '
8G8' # -82 JH + ' 8 ' 2F +8'
- 8+# ' 8E G# ' 8 ' J < #I#' G #'
2 #' # E8' 8' - J ##- ' - J #F '
+#F # +F ' I - # ' 8 ' J - ' '
#E8 -# - ' '& J -' 8X' 2 J + '
JJ#- -' ' -F#- ' $+w2#F ' #220E8+ E'
G8- F ' ' & #-' 8 ' ' 1#2# ' +# #' J + '
1#2#F ' / 8 # ' 8 ' 1#2# -' / 82 #' JJ#- -' # #
9 2 ' ' . ' 18+# ' ' X2# ' F+J8+ J ' 1#2# -'
" #2Ew' $ +#J## ' 8X' E# #E##' -- +#w ' <8+'
E 2F ' ' - #-' JJ#- -' 8- ' / 82 F-'
' +8 ' 8X' G#-#w ' 8XJwJ -' ' 1#2# '
&F 2 G# ' $+wE ' J ' <8+' 8 -82 0'
JH# -' 8' +8G# 8' +JH8 +F ' E 88' -8'
<< - # ' 8#-' 1#2#F-' F+JH E# ' 1#2##' &F
2 G# ' 8 ' G8- F ' 8- ?<+w2#F ' # 8+' 8 - '
<FE' 9 #2 22 J ' F #' 1 J ' 8- ' - + G8-'
G ' 8 +F ' -# 2' JF ' & 2E ' + -- '
8G8' 1F F+ ' 8 -82 JH#w ' FJJ2F-' '&F 0'
2 # G ' 8X G#-#w ' 8 ' 8U -' 1#2# - ' 8

B C' 2(3; 458' =:' ' ' 1' =5;3(?'" 37G' ' 8' 4<4 p ' 49' ;=?';4' 8(= ' (?' (55!' !' K' 55=' ' =5?;:(?2'" 1(;'
K' '=5(25' N! # - ' ! $ a' 7@ 41(8' 2:(5'(' . 49 ' ' 1 1 (7 (' T (4 ' (' 87' 8' =;;'858' 48 !Q' @!' !' K' =5543(?='
87;;488' ' + $ ' ' . ' (55=' !' 2:(5' ^' . 49' - !Q' 4'5?4' 87:G75 ' !' (4:4 378' '=552(';3'"
'R 78' (2;=21 '" '2!' 49' =5(?(' <'2'(' 4@=8 ' (55=' ' =554:(?=' bl&87;;488' ' ;= 'T' . 49' (57=8' 9 ' ' ' G79 ('
' B'!' 4!' G79 (' (145' 5(7 7 (24' O':4 5';71' 4;' (5 (' '5' = =5('=54' (2;=21 '" ' ' '!' 7 ' '5' . 4 !' O':!' !' '
=24 =1!' @!' ;999 ' K' =55;''(?78' ' ' . 49' 2:(5'T' ' '5(5'" <'2'(8 ' (2;=21 '" ' ' ' 49' 4(';4' <'2'(' 54@=8!' ='
K' 87;;488' ' (55=' ' ;= 'T' . 49' ' 7;;488' ' 4'" + $ ' ' . ' (55=' !' Q' %'?4' 87@ ('
(55!' ' @!' , ' 5= !' !

,2' I ;2 JF ' D) ' # # ' .) 8 h' F#< ' ' D)1 .D)# # ' 8') 82 E ' _ ' D) D)<J8D)J2# ' <#0' 8 ' _ ' J ' ' D) #' E< D) ' D) ' _ ' F' !' J ' ' <8#J ' D)q_' 0R #.D)#2' ?<8< ' #<' ' 2 JE ' ' 8' Y<#D) ' _ ' ' I ;2F<JDD ' 8' F 2 4_' ' #- #2' ' < J <' ' 2#0' 22<8 <' ; 8 <88 8 ' _2#< 8 ' _' JF228' { 2F<' 8<' #J' . '4?)' 8 . #22' ' F# 8F ' 8' F 2' ' <8#J ' <8#8 ' ' #22 < ' ' U ;2F<J ' 8' F 2' _' < ' < <' ? ? < #.' < ' <#. 8' ' ' ?< 82 ' 8' I_F#<J ' #' 8 ' _ .2F 8< ' < ' J <# ' ' I_# #20' < ' 0

9 2' !' q1#J< J' _' 8 22 Om$# 8 ' #' ' U ;2 82 <#- #' ' #22#0 < ' ? !' n; F<8 ' F 2' <' .' _' 8 ' ' 8 ' <' ' #<J8' ' J #J# ' 2 ' < J<' 8' J ' 2 ' <' ' D7I0<' _' 2 ' ' < #J' H' 8 ' 2 ' <' 8 - <' ' J <' 8<88 ' ' F#.' FJ2F ' ' 2 #-#<' ' < #J' 8' J<8< #' <' ' #<88' _ 8 ' < ' #<<+' # < ' ' F# ' c;;;

22* J ' FX +' 8UF-' JJ#-#' -# F2' ' 1#2# ' #' # ' E ' JHF#' 1#2##' ###' 8 ' JJ#- -' 8- ' #<-8 ' E#8' -8SF8 8 ' ' ' + 0' 8 ' 8 ' #+ JF2 ' G ' !' JHF 8' #E' 1 J F ' 8- ' "28 #F--# ' - 8+#F ' I -0' F ' ' 1#2# ' 82 #' 8 ' 8UF-' - J 0' #F ' 8 I 8+-F ' 8 ' ' H # 8-' JJ#-#' # ' 8 ' 8 ' _ ' EFJ #' J < # I #' #' 8 ' E' I # E#J ' -F 8 E ' <+ < 8+' / 8+ 8 -8 ' JJ28-# ' GF ' J F- ' ' 1#2# ' +# #' 8 ' ' F+JH E ' 1#2# ' &F 2 G#' 8 ' E' F2J#-J8 EF ' 1+ +8 ' -FF ' & 2EF ' + --F ' / #2#F-' E#J#-' +8H #J#' +E JH #' &#2F I #F ' ! J#8 # ' # 8+ #-8 ' ## ' "#2E -' 0' G 22F- ' 1#2#F-' &F JF #' 1#2##' &F 2 G#' J < -' <8+' I # ' # ' #22E +# ' 8 ' JJ#-F-' ' F+JH E ' 1#2# ' &F 2 G#' J + ' 18JF+#0' 8 ' ! FJJ8-- +#-' ! ' +#G#E ' &F ' 1#2##' / J2 #' 1#2##' F+J E#' #' 8 ' & JH EF- ' 8 ' " 8 F018++8F- ' JJ#-#' ' 1#2# ' +# #' 1#2##' 82 +E#

9 2' ' ' ,BLY' ! # +#JF-' 8 ' JH ' / # 0' BA # #' 1#2# ' 8UF- ' + F#' -F ' 82 +#G#E ' <#-J <F-' #2 / E +8 -#-' ## ' F+JH EF-' 1#2#F-' &F 2 G#' 8X' G8 # ' 8 ' & 0' JH EF-' 1#2#F-' TE #' 8X' ' +JH8 +F ' J8J#E8+F ' JJ#-#' ' "#2E ' $ +#J# ' 1#2# ' &d JH E#' 8G8' -- +# 8' 8 ' ' J' + H ' '& JH E ' 8G8' G JH0' +F ' EF ' F18++8 ' <+ 8E -' 8' <2 # #8' FJ2FE ' # ' G#-# ' J0 + HF-' 1#2#F-0' " + #' 1#2##' +8- G#' 8X' ' +JH8 +F ' 8 ' FX +' 8UF- ' JJ#-#' # ' &#-8+ ' &# + # ##' ' ' 22 #-

B 8C' 5578' ?448' '5' 48 (!' 4?' '?4' 87@ (' (55!' ' 4 ' Z ' 4 ' '5< (' (55!' ' -' ' 4 ' '
4 ' 49' R8 = 7 1' = 1 5'7 1' ;=22('=5; ' ;7 1' 5= (' 5=8 (' (?' (55!' ' X ' (8' ;3 =5=2= ' ;(' 1 (5'<48 4' @(4 : ' !

AL " ' !

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B ' 9 2 ' !' !' !' ' JH 2' /' D G&' <' <JD)#< K 8J' D) #K D)#2#S #' D)' 4 2<KO' #+F)J ' q)2 #J J J' << hF# ' 28D)J;# 2 #<<8' ' h H ' H' qm<8<. #2' <' 0< <JF J' ' h # < ' K ' #' F JH 22' 8')2 JH<' ' J8< F h' 8 8 ' <8JH' p' 822 ' ' < # ' J ' J8< F ' 8 8 ' J ' JF8' F' # h ' _' J <' < ' 2X' K ' < # h' # ' #28 ' <8JH' 2 ' H <<' _' 2 ' H #<J8<' F H ' #' 28' ' < #JH' H' h J KD, ' 2 ' <# 2c < ' ') ' ' + ' J <' 2 #<J' < +' # ' F ' J <' < J' - 2 ' 8 J' ' : F<J << #-' <<J J' _' J <' # < ' ' ' h J ' <' M2< ' <8JH' #F # 8 ' 2 ' H ' H' <F #<J'J <'2F _'J <' <F## # ' <J2 < ' _' ' : #22# ' F#<J8 H 8'F#28 ' <'< ' - #2<8J' ' D2Y# # ' #' s;2 JHJ ' _' U2 ' < ' J ' #<' <'< ' < ' 2 '<<# J# ' ' ' ? 'J J <' '# J # ' _2#<J' #J #' H' ' !(' <' 8<+ ' < < ' U # # ' <' 8 82' : #22' 2 ' J8 82' 8 #' ' J8< F ' 8 J0' < <J ' ' # ' # < # ' H#' JF8' - < ' <' 8 ' H' <# J2 ' < ' < ' J8<J ' J <' 8 ' ' 8< ' J# < # ' < #<' J 2 #<' ' J2 ' << ' 'J '2 < '# < ' # < ' <F# <#<' ' J28#<J# ' #<# ' # < ' J 22' ' J8 ' 8' <# ' J# '# <

9 ' '18+# ' I## ' F 'X### ' , . Y' H 20' E#' 2#F-' E8+#J# ' 8X' JJ#E8 2#-' 0' J# 8 ' [' # ' <8+8G+# # 8' -F ' # ' +E J ' /# H8+ JF-' <#-J <F-' &F 0' 8 -#-' + FF-' 8- ' & 2EF-' '/8+G 2' 8X' # # F ' G8 # 8 ' JJ#-F-' ' 1#2# ' F H 2## ' 1#2##' /# JH+## ' # ' 8++ ' # F 8' 8 I # ' X8+J# -' EFJ F-' ' 822 G# ' 1#2# ' + ## ' F-SF8' E' 8++ '# ## 8 ' #' - F2# ' <+ 8E ' F+ '# 8 - ' # E8 ' 8 ' JJ#E# ' K ' " G+8G # F#-' -8 # +F ' <<#E#' #- #F-' X8' J# F-' EFJ F-' ' -- +#8 -# F-' 8 ' ' +#8 2# F-' + #8 -# F-' # ' 8 ' ' 1#2# ' + H#' '& JH E ' 8 ' ' + E##-' F-SF8') G G+ ' 8 ' J F--8+F ' FF# 8 F ' 8 ' J < #I -' 18J8+F '< FJ -' E 88' -8-8' << -F# 4' 8#-' ++ JF- ' 8 ' JJ#- -' 8- ' # #' '& J F-' 8e)' + 0' E8 -#F ' $ 8E +#F-' 8X8+J# F-' EFJ F-' ' E E ' ' F +8' F2 + ' F H# ' 8 ' F2 + ') G = ' 8 ' # ' 22# ' F+# # ' ' -8E' I# E#J ' E8' 1 J#0' +# F-' 8UF-' -F <-8+F ' ! J # ' # ' 8 ' ! ' JH1 F- ' 81' ! ' ? F- ' # 8E# 8 ' JJ#-F-' 8- ' 8 # ' E E -' # + ' F ' <+ ' ' ! J +F ' ' 1#2##-' + HF+#' $ + I # ' ' 1# E ' 8X' 8121#-8' JJ#-F-' 8- ' ; #J +# ' E8' 2#8 82 ' " 22#' <8+' 2#8 0' 82 ' G #' <FE' 8++ ' # ## 8 ' ! ' & 8 J# ' 8UF #F ' G+8G # #-' JH +F ' ! ' # + #' <FE' F2 JH' " + 'J + ' 8EHF ' ' 1# J2 ' 8G8 ' 811# 8 ' 8 ' <F2- ' 8- ' # H + ' ! ' # + #' J + 8F JF 1 JF 8-F ' 8 < +8SF

B- C' 5578' ?448 ' '5' 49 7 ' 84?' '?4' 5= (1 ' @ U;4?47 4 1 !' '4 1 ' b55(45'' 67=?' ('74 ' @4 ' 65(1 ' ?'<<';'24' 48 ' ?'8 '5 74 4' 5 1 4 =8' ' '5' =?';4' =?'4'(5= ' (' (5 1 4 0 8' % ' '?4=676' 4; = 4 1 ' (?' 2' 4 (8' =1 '5';(248' '5' 846545 4' 5= (' 4 1 ' 6=?7 1 ' @7 =!

9 2 ' v ! !' ' " ' ' !' HF '
H 8 9' I ' H ' qm<# J2#1 JH ?*2U # J/# '
I# ' 1 ; 2 82 **# JJ ' \1<' 2F# F9 ' ?!'
#F ' 2 ' # # 8 J ' <) # ' J <' I^ J # 0'
JJ' ' F# J ' ' 2 <J ' ?J<# 8' < <' 2 '
###' # < #2J' 'J28#<8 J ' ' : J #<' # < '
2 ' <8< # ' <8< 8' _' < J # 8' # E#228' <<#<' ?
)F<J ' ' < # ' <' ' ?) 82 ' < '
' 8' ? ; 2 J 2 J ' <' '
F 8 E ' 2F ' ' #<' ' <-) # ' ' '
J # ' J ' J < ' h# ' _' + < # ' # 2'< '
J <' < <' # < #' # 8' _' #) #28' 9<'
<8<' 8 JD)' _' ' ' 8' ' JF<' ' <\< '
; 2# #' #' J 8 F# ' ' J <J #<' ' < #JJ8' _'
JF#28 ' 8' F 22zJ ' _' ' 28

9 2 ' ' ' ! ' !' ' # ' J ' 2' '
J#JF2' 8' TJ ' .2F# #8< 2 ' ' 28#<J8 '
< ' H ' p#<<<8' ' D))' 2 J 2 ' < ' J <0

< - 8 ' J I8+ # ' E +-F ' -FF ' E' J28+F '
J F-' ' 1F# ' JF+' J <F ' 8UF-' +8J#-F ' 1F8+# ' 0
1+ ' -< #F ' 8 -#-' , . Y
9 2 ' ' ' 18+ ' F ' X > I#### ' ' ' BB'
X2#### ' ' 8E ' 8X' #' / # JH+ JH +F ' '
+E-+ H8 -# #' JJ#-F ! ' 82 J F-'
<#-J <F-' F H8 -#-' SF#8 I # ' X8+J# F-'
EFJ F-' ' 1# ' JH E#' +8G# ' 8 ' JJ#-#'
-F ' A ' -F +F ' # #' ! J+# #F ' $ +#J##'
J # o- F ' 1#22 ' + 2E# ' 28+#Jo-' ' +'
JJ#-F-' ' 181 ?8 -# F-' 8 <2F+# #' -# F2 '
F+JH EF-' 1#2 ' + # #' 8X' ' / 82 ## +Fc '
JJ#-F-' ' 1#1# ' " #2Ew' J 2 J# ' 8G8Z'
1F F+ ' '&F JH E +F ' 2o J #-'
I ! ' '] J ##-' 8 ' I# E#J ' -## <-# '
&8F-#' # 8+J8E8 8' # + ' # ' F ' J8+-#'
1F\+# ' <2o+# #' <+ < 8+8] ' JF ' 8 +F '
H8 #- @ ! + G8-' 811# +F)' 8 ' H0'
J 8 +F ' 1 J ' ' #E8 -# F-' T ' JJ#-#'
-F ' J+] F-' 8 ' F#228 F-' 1#2#F-' 22 0'
J #' 8 ' ' 8E
9 2 ' 18+# ' ### ' F ' #X ' $+# F-' F-' B.'
#' 8 ' <+# F-' F-' J2#' &8J8 d I 8 2#c-
, .] Y' " 8 F18++8o-' ' 28#+J8 ' 8X' ' +0

B- C' 5' 4 4 4' %' (' !' 2(z5' ' 4?' (' (' =2 (5= ' 3z ; ' 24 55 5 ' @!' - ' 5!% !) K' L (:527'5' #' ((52 ' 67=?
K' # ' '!4!' 17 5 1' =; (7 ' 3(:4 5 ' '5' 1 (5=' 3=5= 4' '5' ' ' (4' 4 ' '5' = (' = '5; '(' '((5' ' B' 4!' '5' 2((5'
A' 1 (45=8' (' y ' = (' =55(; '(!C' 54' 7 ' 41 1' @4 ' 4 '=548' (?' ; =5G5 ('=548' 55; '@75 ' (?' ?4<458'=54 1' @(5@4&'
K' 7 1 ' 4 ' (?' 49(; '=54 1' ' : 7 = 7 1 Q) 4' ' 3('8 '8' 8A; 72" % !' '?4 1' 4 78' (7 ; = ' '565' !) K' . 49' ' '145'A'
q 5 78' ' '8' ' 3('8 (8' 3(: 7' ' =@ ' : (=8' 67" ?72; ' 4 ' ; = (1' 4=!' ; (' 0 4 =7 1' '5' (1'54' ' 3(' (5 48' ; (54: (5 !If
'3!' @!' ' 5!' % !' U
B- , C' '1 78' L; 2'37G 8' (5578' <(' ' -!' (674' ; = ' 45?" 875 ' 57 1 4' "G79 (' (4 ; 727 1 !8467458!

JF <F# ' ' 8<JD)'_' ' ' <' 'RI8<D) JE# '
_'9' le <F F' ' 2 8'_'<' ' '<' 8JJ' _2<'
F2'#<'<8D)J<,)# '# '< D)22 H 8 JD) D)'2 '
##9)<' '? 2< U2J')2D) J +D)J' ' D) D) 0
D)'<' #<# 5 L' '?2<' 8 8 82'8 D)#'_'
? 2#< # '# 'I_2F#<J8<J J '<2z#J +D)# H' (' '
#JD)<E' 8'2D)<' B'<D)# '#' D)#<2Z8J' H'
D)JD)<D)#'_'2 '<#<F' <) ' <<JD)J' '
'D)#< F<JJE#'<'8 D) < ' D)#<2' '2 <JD) '
'J8 # ' ' 8'2 # D)< E # 8' F J FD) #'
D)#228' <8' <D) ' FE<2# ' '2 <JD) ' D) '
h E22' H' 8J0<D) D)' J8D) ' D)#2JD)#<<' _'
< D) ' ;2F HE ' ' ;2D) #JD) # 8' _ D)82<'
8' <D)82' ' :J F#<' <' D) H E' '
5 L' #c9)< ' H' J#) ' <' F#<J<D)# 8'
D)< ' D)J 8J' ?y22 D) J' D)< 8 <#D)+#
JF<' < ')#' <# F) ' ' F J 22
_' < J # 8' #22' <<' ' 8' XX '2 8J'
q 0F' ' 8' 8 J '_'2 ' 82<' J' . '
'<J'2 #<8'<8J'< < '_'<# 8' ' 2F # 0'
<8<J ' <8 ' '2 <J ' 'F# ' 8' 5 '
2 # '_' F' 5 --' ' ' # #
< ' ' _2 2 # ' ' q<# ' <'
22< # 8' 8J' ' 2 <' #J ' <# '
8 'J<# J< J'2 <' J ' 8 8' JF#<' <'J2F '
8' #<

+8 +F ' + FF-'\- ' h G 2' ' J *'
8X' +J + w' + FF-' 8- ' / 8-'
{ ' #-8+# ' G '# 8+' / + J -'8 ' I - '
8- ' 2 # ' { '-F 8 -'8- ' < +I ' < + 8'
8XJ8< ' ,. Y' ! + G8-' [2 #8 -#F '#'
88 + y ' 1F2 ' JF ' 8G# 2E ' '
JH E ' 1 J ' ' + ' 1#2# ' + 2E#'
/2 H8+ JF-' : ' ' 8X' #+J 22#w'
+ FF-' 8- ' ! + G8-' 2#8 82 -' G #'
8 ' +G# 22# +F ' -# F2' JF ' F+J8+ JH '
1#2# ' /2 H8+ JH#' ' --8 +F ' # E8 0'
-#F ' <8+' ! EH # -' #8 ' <8+' " + # HF '
0 ' -#'8 '<8+' +8G#8 -8-' ++ JHF-'1#2 -'
! 8+ F-J G#' 8X' G JH +F ' -0'
-82# -^' J F- -' # ' E '# J8 - ' '1#2# '
G +G #' 1#2##' JF #' -# F2' 8XF '
F2 #-' G # F-'J F- #-' # #' & 20'
EF-' ' 8 1 E ' &FX' & 2J --# +F ' 8'
"F 8+ +' #w' + FF-'8- ' V
J -'1#2#F-' 82-8JH2 #' 1#2##' 8 1 82 E##'
1#2##' J +#' 8X' 1F F+ -' ' 22#0'
+F ' JJ#- -' '& J F- ' 8X' F-0'
J+ E#w' JJ#- -' $+w2#['q# 8+' 2 0'
8 -8-'# I#J8 '#' SF ' JJ#- -' 8- ' +* -'
-' &F J82E8 -#-' 8 ' F2 #' 2##' JF '8 '
#' 8' I#8-' XX' H8+ 8- ' ,KBY' X8+J# F-'
EFJ F-' '1#2# ' JH E#' 8 ' ' 82-8JH2 '
JF ' 2#8 #G8 #- ' J F--8+F ' ! +EF '
8 ' /# 0G 22# ' 2F 18+ ' +8 E #'
J F- ' 'H#' ' ##-'JF '-F ' JJ28-#'
2 <#E8 ' 8 ' F0J J F-' 1#2#F-' " E+ #'
'&8 E #G' JJ#-F-' # #' 2G E#F-'
1#2#F-' /2 #' 8X' 22+ G#a ' ##' 8'
+ ' I 2E8' 28 2#' 8' 8+ # o

B- C' =5(8 4 '71''58' 54'0':41= 71''5' =2=5'(' '@@'5('3'8' 41@= ':78' ;424: 4' 141= (5'@(88'1' 55(248'
0':4 5'4" %!' (!
B- C' (4(' 4; ='54'3754' 25('51';=5<75?(';71' '5(5=' d 4' =5;3(?'&14& '5(1'?4' 67=' 87@ (' (?
)* ' # #' ' ' '

9 2 ' U `2F#<8 D)J # ' ?<# #J 2 # ' H ' 8#22
_ ' 22# #J ' I# ' H ' 8D)JH ' 2 ' | ' 2 JJ) ' O .
J8 ' 2D) J # ' F2 ' ' .D)2 ' # ' 8 8 . ' '
qm<# .D)# 8 < ' D- <E 28 # D) D)J 0
D)< ' f2<J #)22 ' ' <FD)#<J <# <
D)< ' ' J8 82 D)#22 ' # ' D)<D) 2 ' #D)< '
D)$ D)# ' J2 ' # ' #< ' J ' ' 2 # ' <#J ' < '
b 2 D)< # 8 # E< ' 2 ' 8 #22 '
2 # <#. ' ' 2 # ' qm<8< 2 ' # < ' @!
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J2 <J J ' ' M2J J2# J ' J <8#<
*2< #2J ' ?)2 ' # ' n 2 #2<
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-< *F ' +#F ' I8-<8+ +F ' < - SF '
8XJF # - ' < -- #--8 ' SF# I# 8 ' + #- JF- 0
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, . . Y 9 2 ' F#+8E JF- ' 1#2 ' / 2 H8+ G# ' BK
2 ' 8 ' #E# F- ' 8X ' JH +F ' 2 #*8 '
J F- # # ' E ' # J8 - ' ' F0F2 E# '
1#2# ' G 22# ' 1#2## 8 8 #G# ' ' / # G8 8F- '
8X ' G J +F ' ; 22#- ' JH +F '
JJ#-F- ' 8- ' + HF+F- ' ' F +8 ' 22 +#
<<822 F- ' ,# ' 8 ' J +Y 8X ' J# 8 '
JJ#-F- ' 8- ' ' 2#8 82 ' 22# '
A ' < - SF ' 2F J -# ' E8 I - --8 '
J + ' ' G-#G ' 8X ' & 2 + E# 8 '
JJ#-F- ' ' 1#2# ' & 2E# ' G-#G0 # '
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+#-8 JJ#-F- ' ' 811#8 -# F- ' JH +J JH
+8E## ' &F 2# #F ' < - ' + 2EF ' ,E81F J0
F Y 0" + 2 H ' 1#2# ' / 2 # ' 1#2## 820
-8JH2 # ' # ' -8 8J F 8 -F ' < - ' < 8 # 8 0
' SF#8 I# ' ; 2 82+F G#F- ' $+ J8+ -
' # ++E ' JJ#-F- ' 8-

9 2 ' 9 ! ' # <J #228# ' ?$ '
' I_ F#<J8<+ J ' ' 8 ' 2 ' < ' '
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;2 ' ' 8228 J #< ' _ ' ' F# ') 2 22 '
J<8 8 F#2 ' ' ' < <<F ' JHJ 8 ' _
' J8 JJ 2 ' D2Y# 22 # ' #<J ' '
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9 2 ' ' %! 18+# ' 2F ' <+# ' , . KY # +0 B_
J 228 ' 1#2# ' / G2 G# SF#8 I# ' F#+J8+ JHF-
1#2# - ' 1#2## E E # ' 8X ' +8-- 2# +F '
JJ#-F- ' # ' +E JH ' ' E E ' 1#2# '
8 22 JH +# ' \ ' ' ' # 22 #- ' E 2 -8
2#G# ' I - ' 8XJ8< ' < +I ' < + # 8 ' 8 '
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J +#- ' ' F +J ' 8X ' +81 # -8 ' +#8 0
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B C 448 ' '5 49 7 '55 1 4 ('= (55" ! 4? ' 4 5(; 3p 1 458 67=(? (557 1 '375; ; ! ('55 1 4 '8 . =1 (5'8
1 ! 92 "! '5 49 7 '8 '78 (55" (@@=8' '8 ' 4 1 45?('48 ' 4 ' 49 '5= '8 L ; 2" 75('8 (55" -! 79 (' % (! 3'4 48 '
(5578 ' 4 ' (5578 ' 1 1 4? '(4 8465458 ' 67=] = 1 2(3(' . 4 '5(' = : ' ' ! 4? : " 1 (1 ' ; = 1 ! 75= (55= (5 4&
4 75 ' 4 ' (55" - 4 ' 'G79 (' '22=8 ' 875 ' 4 4 h (4 84 ; = 1 ! ' 4 ' Z!
B- C 7 1 4 " . = 1 (5" ?4875 ' '5 49 5 ' 84? '?4 7= (1 '@ 1 ; 4?45 4 1 ' 4 ' '5< (' (? (55! !

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I_ KDDKDD ' H ' 2##0<8<+9) ' JD)UY?8J 82 ' 8 J<8J 9# '
H ' H8K# ' < ' H ' ?m<#D)J<EJ D)#K 8

,YBG 9 2 ' ' ! ' ! ! " ! 8228
? ' ? 2<KD)J2F##.' << ' I_D#82 ' 2F 2 '
h H 9)22 8 <#)# ' J < #h# _ ' JD)<
2Y<8 . E J ' _ ' J ')# #.' J ' <FJ #DDI22F '
8 1I D)#2 #D) ' _ ' <8#< '
hF P - ' ' F #2 ' m ' ' < ' F #) '
_ ' < E # D)#<J#< 8<) ' D) D) ' ' #D) <D)#J<# '
O<8 ' ?<8<-#)2 H ' D)82 FD)# ' < ' ?)8<J822
8J ' 8 <D)82D) ' H ' JF#22 2# ' F HD) '
' 2F# ' H 8J 8#.' _2< <# _2#<0
. DDg2 ?! ' X< ' _ ' ' F2g # ' < ' #J8 '
' ' F 028 JH.2 < ' I; 82< F#22 ' H '
#8# ' < ' H ')2 J< J # 8 ? ' , #J '
< ' H ' 8 2# G < ' ' ' J # H- ' H '
2 82<F ' <8J ' 2 ' ' n 2 82 ' < <
< ' 8#< ' J ' <F8 < #J _ #228 ' <J J '
2 ' J F#< H ' 1;2 82< ' J < .' 2#<8 ' _ ' J <
+8< ' #22# < ' J ' JFJ . 2 ' <
' <8J ' 2 ' ')m< 82 ' < J2F # ' #< #< ' '
#2 ' J<8#J 8 q1#++ ' #F #- ' 2 ' 8
8 J ' _ ' 2 ' 8 1;2 82 ' ' ,)# # ' J <
2 #<J <8J J822 ' < ' ;2# # F#28 < ' ' 8JJ '
. #< TJ ' J < # ' < ' 2#<8- ' ' - #2
' J2# ' ' I_2 82< J ' < <- # ' F ' 8+#
8 ' J J < < ' ' ' 2 8 _ '
' ;2 82< ' _ ' ' ?)<2 J ' _ ' 28#<8 J '
' + # - ' _ ' 8 <# J ' < ' '
h82 ' J < <#< < << ' _ ' J < < ' F#28

X8+J# F- ' EFJ F- ' ' # 22 ' 1#2# ' 82-8JH0
2 # ' <8+ ' #+ # ' 8 ' +G# 22# ' # ' +80
G# ' JJ#E# ' # # ' #18 F ' &FJ8 '
2F 4 ' +#J # ' ' 8E# ' 8X ' /# JH0
+ JH +F ' E 88 -#F ' + FF- ' 8-
9 2 ' " ! ' ' j ' ' ! " !
8#28F- ' <#-J <F- ' +E JH E8 -#- ' -FJ
J8-- + ' <#-J <# 82 ' + FF- ' 8- ' X8+
J# F- ' EFJ F- ' ' & 2E ' 1#2# ' +# ' F2 + '
#E# ' 8 ' F2 + ' +8G# ' JF ' 2#8 #G8 #- '
8 ' G8 #8 -# F- ' - F2# ' -#E8- ' ' 1#2# '
82 # ' 8 ' +# F ' -F ' ' & #- ' &F 0
2 G#F- ' 1#2#F- ' &F 2 G# 8X ' / +#F # +F '
F 2 8 -#F ' 8 ' " F 8 + ' +#8 2#- '
8+ # 8 ' ' 1+ +# F- ' <+ <+##- ' +FJ#E F- '
/8+G 2 ' 82 F E 8X ' /8+J 22# +F '
' 8 1 82 E ' F#22 ' $ 8 ' 0
8 ' , . _Y + FF- ' 8- ' " #2E - ' 2F '
' JH #G ' -F<+8 F- ' 8X ' +G# 22#Z ' SF#0
8I# ' # ' H+#- ' 8 ' # ' 2 # ' -8<F2 - ' 8- '
<FE &F F ' 821 F2 ' 8E# ' 8X
' / # JH+ +F ' + FF- ' 8- ' /#2#F- ' 0
+ # ' J # G JJ#- - ' ' 1#2# ' H E8#
' 82+F #G ' JF+-# 8 1 J ' ' 1#H '
82 # J + ' & 8-# - ' - F2# ' J < #I -
8 ' + 8 ' JF+-# 8 1 J ' ' J 0
+ ' ' 82-8JH2 ' F2 + ' <F ' #11# 8 '
8 ' F2 + ' 8++ ' # F 8 ' " #22E +# 8 ' - F
2# ' <+ 8E - # G8 8- ' $+ 8E ' J ' <8+
' / 82 F ' ' F2 + ' 2F #+ +E# ' E
I# E#J ' -#F 8 E ' E8 <+4E#- ' +F '
X8+J# F- ' EFJ F- ' ' 1#2# ' JH E# ' 8 ' ' 1#2# '
82 # # ' #E# ' J F--# ' JJ28-# -
#E8 -#F ' <8 8 8- ' " + # F- ' ' 0
HF- #G ' 8X ' +8G# 8 ' J < F- ' ' J +

" 2ʻ ! AL.

W

' 82-8J 2 ʻE 88ʻ + E8+8ʻJ J F-ʻ8--8ʻ -#E8-ʻ %ʻ !F<8+I8 8+F ʻ F8 ʻ 8Xʻ 1F F+F-ʻ #ʻ # 8ʻ 8ʻ ' 82+F #Gʻ 8ʻ '/ G ʻ 8ʻ 28+#JF-ʻ ' #EHGʻ 8ʻ 1# F-ʻ +F E J #ʻ 8Xʻ 1F F+F-ʻ &82I# # 8ʻ 8ʻG8- F ʻ8-ʻ<+ 82#F ʻJ +ʻ8 -ʻ 8ʻJ 8-# -F ʻ 8-

%+n! ! ! !ʻ ! !ʻ ?m<2D)#J 0 JD)J #2ʻH ʻ . ʻ #9)U# D)ʻD)# D)#U#J8 8ʻ :J ʻ ʻ2 # - -0ʻ 1;2##<J ʻ 8ʻ ;2)82<ʻ #)< ʻ ʻ JHʻJʻ##D)ʻ J F#2ʻ q<ʻ ʻ ʻ F2#Jʻ_ʻ Eʻ) .ʻEʻ) ʻ ʻJF #8ʻ 8J#ʻ Ie8<ʻ ʻ 2Y<8.ʻ_ʻ< E< Eʻ#E< Eʻ 8J#ʻ _ʻJ #< 82 ʻHʻ EJ E<E#ʻ Eʻ J _ʻ<ʻ2 #)Jʻ 48J Eʻ <#FE#.ʻE ʻ <ʻ 8JʻJ822Eʻ _^ F 8ʻ #E<018 ʻ <#FE#-8 ʻ Eʻ 8ʻ <#E#ʻJʻ E-ʻ ʻ M)2#< ʻ ʻ <F8ʻ #E22Fʻ 2E# .ʻ_ʻ #1<E# ʻ m2 E # ʻ2 Jʻ8Jʻ E 2#E-ʻ_ʻ<8-28 ʻ ʻ 0Ue8<E#ʻ <8# < 8ʻ :J Hʻ) <E82E ʻ 1 ʻ ʻ :E#220-E <E ʻ E< ʻ ʻ <ʻ .E)ʻ E8 8Eʻ 2 Jʻ28 ʻ? 2 8#<2#ʻ 8ʻ E#22ʻ I#ʻ <J E#<J# ʻ E< ʻ ʻ 8ʻ22#<Jʻ ʻ | ʻ 8ʻEʻ 8< <EJE<

9 ʻ !ʻ !ʻ ʻ !ʻ0 ʻ ʻ E821^ʻ ʻ J F#<ʻ<ʻ #28ʻ E< ʻ #Eʻ F Jʻ#<8 ʻEʻ 8 E#2ʻ J2FE E0 EJ0 4 ʻ E< E###ʻ < ʻ J<# #1<)ʻD)8 ʻ<E#J8ʻ <88 8ʻ ʻ<#2ʻ ʻ? 2 0ʻ 8E Eʻ _ʻ< ʻ ʻ Eʻ E22<E# # JF1 #Eʻ< JF#2ʻ h 8E ʻ ʻ <E82E ʻ <ʻ ʻq)E#2-T O ʻ ʻ E 028#<8ʻ ʻ E< E#ʻ_ʻ ʻ <UIʻ Eʻ :J ʻH E82< @ 8 8 E###ʻ F#<J8<JE#- ʻ Hʻ <#E ʻ< 8<

9 2ʻ !ʻ ʻ ʻ ʻ' !n <n !ʻ /2 0ʻ BLʻ H8+ JF-ʻ 1#2#F-ʻ ' G-#G#ʻ JJ#-F-ʻ# ʻ<+ 82#ʻ +# # <ʻ ʻ 1#2#ʻ J +#ʻ ' G-#Gʻ F+< EF-ʻ 1#2#F-ʻ 82-8<H2 #ʻ JJ#-F-ʻ ʻ J +ʻ 8 E8 ʻ E 2 -8ʻ X8+J# F-ʻ EFJ F-ʻ ʻ 2 ##-ʻ 8ʻ G8 #8 -# F-ʻ #E# ʻ EʻU F18+8 E<-ʻ< -#E8- +8G#8 0ʻ -#F ʻ8ʻE8J#-#ʻ-F ʻ< - 8ʻ -#E8-ʻ #- #ʻ 8ʻ +E82 JHF-ʻ :' H - #Gʻ <8+ʻ J 0ʻ +F ʻ 8ʻ J F--8+F ʻ X8+J# F-ʻ #- #ʻ 8G# 8 ʻ JJ28-# -ʻ 8ʻH # 8-ʻ< - 8 ʻ X8+J# F-ʻ EFJ F-ʻ ʻ1#2#ʻ +# #ʻ EʻJ <FU ʻ #+ ʻ - F2#ʻ -#E8-ʻ G8 # 8ʻ8ʻ -- +# 8ʻ -J # ʻJ F- ʻ +ʻ JJ28-#ʻ2 <#0ʻ ʻE8 ʻSF ʻ JJ28-#ʻ JH +F ʻ ʻ +810ʻ 8 -# F-ʻ J +ʻ ' 8 1 82 Eʻ 8Xʻ ' 22# + ʻ" H+ 8ʻ JJ#-F-ʻ ʻ 8G8ʻ G 8 +F ʻ JF-ʻ 8 # 8ʻ -2#-ʻ 1#2#F-ʻ & 2E#ʻ 8Xʻ +J -J # +F ʻ JJ#-F-ʻ ʻ1#2#ʻ -# #ʻ1#2##ʻ & 2E#ʻ #ʻ8ʻ1#2#ʻ 1+ +#-ʻ -F#

9 2ʻ ##ʻ 18+# ʻ F ʻI##ʻ ʻ ʻ 820ʻ .ʻ -8JH2 F-ʻ 1#2#F-ʻ J +#ʻ 8Xʻ 2#-8ʻ JJ#-F-ʻ ʻ -F#-ʻ E 2 -8ʻ 2F J #-ʻ - 8+#F ʻ I - F ʻ 8+ʻ -< #ʻ +#F ʻ 8 -#F ʻ -< 82ʻ ʻJ2#8 82ʻ JH E#ʻ 8ʻ 0 #-ʻ ʻ F2 + E##-ʻ8ʻ!# JFU2#-ʻ & JH EF-ʻ 1#2ʻ "#2E 8ʻ / 82 #ʻ 8Xʻ :'/ 2G8 +F ʻ + FF-ʻ8- ʻ JJ28-#ʻ E828#+8ʻI - ʻ 8ʻJ F- ʻ ʻ J +ʻ ' 82-8JH2

9 ' ! !' i !' !' !' !' F<JD)K' F'
1##JJ' U#' h # H#9)' 9) # 8# #' !' f' ' D'
8 ' ' J D)#<' U#' ' ?)D) .'
#D)< D)K' 9' F# J' 8# ' qm<D)82 ' '
<D) #' ' <#J8' # D)< D) ' D) ' hD)c 2#D) '
2# c # #<' JFJD)' 8 8 ' < D)< ' D)82 '
8' <#JJ' 6 2 D)2. #h' 8' D)JD)#2' 8'
<FD)h<#' <' #9<JD)#<' <' h ' hD)22' 2 ' ' ?A28K' '
:8 ' 2D)' <' <' 8 <' D) <# 8' F)<< ' D)<F<' D)'
#E<JE<' <' 2 ' ' 82 <' < <
< # ' F' ' + <8 <' #28 ' JH #2' '
8< ' <' <8 8' ' F#' < <' 8< #8 '
22' } ' J <' ' F <8 -' ' J <J #<'
' ' # ?' _' < ' JFJJ ' !' !' '
h# <#; g' 8' h ' ' <# # ' < ' '
8 #2' 2 ' F<J ' ' <# # ' ,;2 # 8'
<' J ' ' #8# ' <' 8 ' <# ' '
28 ' ' J #<' F' ' J <J #<' <' ' 8 8'
2 # 8 ' ' 2 82 #' ' 28 J ' <' . D)'0'
28 ' ' F#' ' m2 # ' 8< #2J' J #<' 2 <'
J# JJ ' ' < #' d 22' ' ' <# # ' J' f'
' _28 ' ' :J #<' <' <' #28' F# 8' <'
' J< <J ' 2 ' ' c28 ' ' :J

#I# -' F+J8+ G#' ' +# ' 8G#-'
8+ # 8' ,.CY
9 2' I#' 18+# ' F ' XI ' 0 40 F+0'
J EF-' 1###F-' +#JJc' 8X' 1F F+F-' &8-# + '
JJ#- -' ' 1+ +# F-' <+ <+##-' ' J +'
8X' #' / 2G#-8' JJ#F-' ' -F#- @ / 82 F-'
1###F-' + #' 1#2## +#JJ#' JJ#- -' # ' JJ28-# '
2 <#E8 ' #- +# 8' JFE8#' / F#' #-' SF#'
JJ#E#' 82-8JH2 F ' 1#2#F ' +#JJ#'
2G E#F-' 1###F-' H 2E#' 1#2##' E8+#J#'
8X' JJ#E8 2#-' J# 8' 8XJ 8J F-' '
8E ' 4 +' 8G8' J# 8' SF#' #0'
F#' E8# E8' -F<+8 ' < 8- 8 ' # ' 0'
J# ' JJ#E8 28 ' ;#J +# ' < + ' <8+'
82Eh+F ' J + ' 8 8F-8-' F #'
E8J#-#' -F ' F2 #' 2EF-' 1###F-' #G8+0'
#' 8X' +81 # 8' #I#' E' E8<+ 8E EF '
' ' 8 ' 8X<oG I#') G #' F
JJ#-#' -F ' <2F+# #' 8 ' J #' -F ' # E8'
_ ' I8-' # + # #F-' 1###F-' & 2E#' 1#2##'
+# #' JJ#- -' E 2 -8' ' F+8 E ' 1#2# '
+# # @ ;#J +# ' < + ' J + ' F '
1#2#F ' # 22#' # ' 8' / ' ' ' ' ;#J +# '
< + ' <8+' 8EF ' ' +' # ' SF ' JJ#-#
-F ' <2F+# #' J 8 +F ' EG 8 F-'
1###F-' 82 #' ' # J # ' 8X' " 28 G# 0'
' #I#' ' 8 ' ##' < -' +8E# F ' '
' & 2EF-' 2 F-' ' +# ' JJ#-F-'
68-' <8+' EHF ' ' +' 8G8 '
J# 8' + +' ! J8+' J <#' E + # #-'
8X8#-F-' <8+' EHF ' ' +' ,.LY

B C' %'?4' 6784' ?4' 3=;' 4 4 - ' 41(; " ;=(4 =' ?'; (' 875 ' (' !' 4 5(?=' '5' %' (' !' (2(;<('(4!' 7' ' = ?42&
:(;3" ?4;488= '8' <'2'78!' %'?4' !' 5842 1 " @'8 !' '5' 884 '" L22= ;' =!' - ' ' Z!
B-MC' 9' (?' '=54' ;= 7@ (' /5 4 ' 35';=8' ' 45 4 ' ?4' :u 4' 8;'45 '^' :=5" 4 ' 1 (2' ' = (' 48 ' 85@4 8 ' '='
7'?5 1 ' 67(' (:= 48' 8(; =8 ' @ 484 '1' s74! ;78' (?= (:(5 ' 7 ' <(p?';=8!' O'o4' s74 ;=8N' . 5 ' 3(:4:(7 '
(:' :4 '8 ' 7 ' '5' 454;(' 4 ' '@8=' O'8@(5=' '5' O 4 ;!' 4 4' ' Z !' O'5; =?=5=4' 8'2 (' '5 458 ' = (' s54 ;78 !' 4 '
41 @27 1' =L'8 ' 4 ' (;727 1 ' 4 ' =58!' 2'5!' !, ' ;! N' O 42(' !, ' ;! N' 4 '=8' (?' %' '2'] 4= !' !' ' 4

' ' ! AL_ !

9 2 ' ! !' " ' !' #J s D)#JH' H
' ## JD)' ' % D) 1 ' I ' ' D) H D#
#F H ' 8 ' <8JH' 2 ' # ' U ; 2 #2 '
' <# #- 22' J U#2 # J' # ' J#<8' ' : 2E#0J2# JH'
?J ' H # # 8' <' JH ' J << #-' F' J ' 8< '
< J' < ' # F ' F'
Jd<J #<' 2#8' 2#28' _' F ' J ' 8J #-0' <'
. -' J <' F#<' ' J0 <08 J' # ' < U0'
#22 ' _' < ' ' 8' ? ; 2 #20 ' <# 8'
. ' 8<<# ' .2<' 22< # #' # ' ' m2# H'
' ' 8' f2#<8JHJ #.' 2 ' J 8' < F#<JFJ8 '
<8<# 8' # < # ' <8JH' 2 ' ' : J F#<' <'
' J 8 ' J <' # #<' J ' <' ' < ' #<J'
#2' ' ' #2' $. ' M2JH ' J2# J'
<8J#

9 2 ' !' !' ' !' FJ# <' ' _ #280 F#
§ ' F#< ' < ' 2 ' ' ' ' *2 # ' '
<F <J' ' 8 #2' # ' ' #<8JJ <' <8 ' q)*8<0
' 8' # J8' ' <F #<J' < ' <
¨ ' #<' B m# 22' ' J # ' < ') 8< J' _
. #22 ' J<' ' < J #<' < ' <8< # ' 2F#< '
' 8 #2 ' 1`2 82J< ' 8' J #2' < ' 8< 88'
<8 ' < ' ' F# ' <# J ' # J#' 2F # '
#<8' _' J<8J ' 2 #<' <' #F' 2 ' 8
<# ' 2' 2 ' ' 82< ' ' q) # 8' ' J '
+F8' < J' 8 ' _' J ' JF8' < J' <# #-' <F#J'
#<' 2# -' 2F<J ' _' <FJ' < J' 8 ' ' 8'
#2' ' <8- # ' _' ' # 8' J < 0'
2 #<8' ' ## ' J ' # < <' `2# #' _' J ' <F8'
<' ' F # ' _' ' < #J' <8J ' 2 '
28J 2 <' ' 2 # - 8 ' < ' $. ' <' . D)#0

9 2 ' # I ' 18+# ' F ' XX I ## ' J+ HF-') A'
'& JH E ' 8X' G JH +F ' -0'
-82# 8 ' 8X' 1F F+F-' # 8 ' ## ' $+ 8E '
J ' <8+' 1#2#F ' 82 #' 8' / # G 22# '
8 ' +8G# 8 ' J F--# ' ' &F 2# # ' 8X' #
<+ I#- ' 8XJ8< #-' ##- ' SF#' E8E8+F ' 8#' I8- '
8 ' # G8 8' 1 + #E# 8' 8++F# ' 8-' F E8SF 0'
SF8' J#+J ' +J8 ' F #' JJ#-#' -F ' <2F+# #' ^
8 ' + '-#' I # ' 8X' 2#8 #G8 +F ' F2 + ' +8 '
' 8 ' JH +J JH' 1#2#F-' 8G# 2E ' ^ 8 '
F# ' 1#2#F-' 2 #' 8G F ' 2#8
G8 +F ' < - ' 8F ' ! + G8-' 2+ E# +F '
JF ' 8G8' -F ' # 8 ' JF ' 1#2# ' +8JH G# '
<8+' J # - ' <8' ! J+# ##' # +
$+ 8E ' J ' <8+' ' + ' ' J ##- '
SF +F ' +8G# 8 ' I - I # ' I 2E8 ' / #2#F-0'
82 #' # F# ' 8G F ' &F 2# # ' <8+'
I # ' 8X# E8
9 2 ' I # ' 18+# ' I ##' F @ FJ# +F-' ' . '
828EF# ' 8X' F+G# +F ' JT#-F-' '
#E8H8 ' ' F +J ' E 2 -8 ' SF I#-' 811 '
' -F ' <+ <+# ' JF- E# ' / 8+G 2F-' 1#2#F-'
1#2##' #EJH8#' ' F + ' JJ#-F-' 8X 8 <2 '
< - 8 Z' # 22F-' ' JHF#G ' 8X' / 8+ 0' '
JH8 -#- ' 8 ' " #2E -' H+#- # -' 8UF-' 1+ 8+ '
JJ#-#' ' F+G8 -# F- ' E 2 -8 ' 82+F F-'
1#2#F-' H 2E# ' 8X' F- + 2#-' +8G#-8
' J#-F-' <8+' ' # G -' J 8' E#8#' F 8'
$ -JH 2#- ' SF I#-' <+ 8E -' #G8+8 ' '
2#8 #G8 #- ' X8+J# F-' EFJ F-' ' 1#2# '
+# #' 8 ' ' ' 82-8JH 22 ' # ' / # G 20'
2# ' E =88' + E#E8+F ' / # G 22##' -#E8-'
8#- ' 8 ' E 88' E8E8+F ' ! # G##' J < #I -'
F2 -' EFJ -' # ' J828-# ' 2 <#E8

| 5 4 ' ? ! 22 ' %! N' ' ; 4 =' (?' ' ; !' ! , ' @ ! ' 4 ' ?4' ' '5! ' ; ! N' 2(7?'(5' ?4' ' =58" O =5= '' ' !' ZN^'
'?' O 4 (1 !2 ' !'Z !) 4 @47 4 1 ' (:= '8' (2= 7 1 ' (7 4= 7 1 ' 458 =?4 1 ' 4 @45 '8' 65" (1 ' (?' @4; ; (5?5 1 '
@42249' ' 8L 1 :=27 1 ' 4884 ' ?=; '88' 1 " (5 '67" (48' ?4; 2((5 !

28 -)# ' _' #< S##J8h' I_ ' _' <8-' Z' 8J #U' # ' ' # #- ' ' 8' U ' ' J << # ' F' <8<' # J ' J8< J <' <#<' # J' ' ' <# ' #' h ' ' I) #2<' ' J <J U<' 28U4' " - 2' ' <8 U ' <' - #28 -' J ' F#2J#<<' J 2 ' < ' h82 ' h < ' ' !' !'2 !' !' f

.B' J !' !' !' '_ !' M28d' H' <8<! #28' # 8' : # ' ' 8#22' < ' K 2 ' #22 ' _ ' < ' J8 82' D ' J >J J' h8 < ' h ' 28J02 <' H' 2 # 8 ' ' < ' _2< # 22' J' # F2 < ' 2 #J0' J T J' 88H8 ' ' < #8<' #<<8<' 1882 ' ' # ' <828' F' F <' ' 2 _' \ # ' F H ' N' #<8' ' * ' <' _' 8 \ ' # <' ' 8 ' _' 8T#- I<' < ' J2F#' < 8' ' H8 ' 8JJ '? #' J ' 8#- #<' #<# ' J2 8J8 8 ' R 0' J <' JH' ' F < J <' ' J ' +' < <2 <' # ' #28 ' #< #' #) ' 8<' _' + <2 #J' <8 ' H8' <#<<' <#<' : 8< #2J' e< ' J ' #<' _' JF8< ' J8<' ' 2#<FJF' _' #28HG' ' #< 8' _' < ' 28#J' <#J' <#<' <#<' J #2 ' 2 < ' < <' 8< 8J <' ' H8 F' ' < #<' < J #)' _' # ' #< <8' <' H 8< <# <' < #' <' J<# ' ' ' <<8# # ' zJ 2 #** ' 2 JH' 4F# #0 < ' ' 28# ' -#* z #<T' ' 82F ' H<8 ' # JG' <

F-J 8 -8 ' 8 ' - F28+ ' -#E8-' ' 1#2# ' 82 #' # ' 8G# ' 8 ' # ' #E# ' 8 ' J F--<+F ' +8G# 8 #' ' 8 ' F-SF8']E' JJ#E8## 28 ' #E# ' 8 ' - F28+ ' # G8 8 ' F+ 8+F ' F ' 8 ' J < #I +F ' ^$+ 8E ' J ' ' 8 H2d + ' ' EG 8 ' 8G8' +G# 22# ' J + ' " 28 G# - ' 8' J + ' : ' ' I#+ -' #E# T' 8 ' +8G# ' 8 ' TF ' # -8JH F-' 8- ' : G 22F-' 1#2# -' !8 c#' 8X' " 28 G# 8 ' SF#' - F2# ' <I8-' /8+ 0' JH8 -#F #' SF#' <8 ' <8 c8+F ' ' 8G8)' # ' 8 ' & 8H E ' 1#2# ' 82-8JH 22# ' SF#' JJ#E# ' G 22F 7' 1#2# ' !8 # ' 8G8 ' " 28 G# +#F ' JF ' F2 #--# #- ' " JH2 F-' 8X' & 2 # # 8 ' JJ#- -' ' -F#- ' & 2 -8' JJ#-F! ' 8- '

9 2 ' #' 18+# ' F ' I##4',K Y' 8EHF-' ' 8+G #28' 1#2#F-' G## ' 1#2##' 22# ' 8X' +1F +o-' 2#JH# 8 ' 8 ' 8X' 2#8 82 8' G #' +8G# ###-' 2J J ' <8<#-#' ' ' 8 H2 + ' ' EG 8 ' 8G8' +G# 22# 8 ' JF ' 2 #-' < #28' #G #8F ' #-F ' <FE' <--E82 ' E#8' &8 # #J ' 18- #' " +8GJ+## '^I' H + ' E#J#' 8 ' I\\' #G+ \' # + 8- ' 8 ' 8X8F 8-' # E8' 8 ' I#-' G ' # ' 8E# ^' 8 ' I8 #8 ' R ; 8-' < + 8' -F ' H-' #- #F-' G 8' SF E ' # + ' # ' J < #28 ' 0 G+8E#8 8-' 8' ' J < #28' -F- F2T+ ' J 8 ' I8 #8F ' SF#' 8+] ' # ' 8E# ' <<#E#^' # ' ' 2 F ' # ' ' 8+8 '08 ?E8+82#SF8<F ' 8F ' E8 +-F ' # ' F ' 18 ' #+8 ' # - E 8+ ' 8 ' - F28+F ' 0< +# 8+' +# ' # 2# ' 8 ' E -' <V+IF2 -',K Y' 1 8-' # ' + 2 Fc ' 8 ' E\+82#SF8<F 0^' 8 -' E8 +-F# ' 8 E8 ' E ' !#2I ' # ' SF

B C' 9@4' 1=55'178' 5 14 =8' <4 '(248 ' (' ;'':'8' ;= 7@ =8 ' G79 (' (4 ;7271 ' :'8' 55(2':78' @ (41'8871 ' 4884' ;(8 G (5?:8!

B ' C' #(?41' :(:45 ' %' %<(!' (?' (55!' - !' 2" 2 =5'4''?:58' ((y (' ?4855 ' P15'5=!' 55 1' 3_'';' 4884' 84 (N ;=1!' - ' ;=5 49 =8 ' 4 ' (55= 71 ' @ 84;4?45 '51 ' z;' 846745 '71 ' wX ':8' (:75?X' ?4@2((5 !

822' #82#' J #' 8JE# ' #1# ' ?m<8 D)#2' JH '
' 1D) 9 #22' ## D) #' 8I# ' ' H ' D)J 8J' 2 #) J '
_' + ' # ' D)m#J #J 8J' U#E ' ' # 280'
9# ' I#8J ' 2D)' ' _28h' H ' J ' 2D)' < ' '
' <J D)# J# ' _' J ' <82#-2F)' J <' D) '
D) #I2 ' #' D)#<8# # 8' _' J ' <J #<' 2 ## '
' JF<' ' _28 ' ' 8 8# # ' < D) '
2JD)# ' 9' # J' JD)<<J # ' < ' F'
JHD) DD@ I F' 2D)' 8' D)#2 D) ' _' 2D)'
.#22D)' 1X)J<' < ' <' J ' D)22' _' 2D)# ' _' 0'
< # # ' 2 # ' F HD)# ' J <DD ' JD)JD)<' 28J'
9#<' _' J <2 # J' 8J' F ' J<#2# ' _'
+ ' J << # ' ' <F) ' FD)<' < E#' I 8 JX'
8< ' 2YFD)' a $ #2)#' D)2FD)' ?!

9 2 ' # ' !' !' !' h 9 22 ' < ' '
9)8 <E8H' _2# 8' +<8' J D8JD) ' D)J J<8J'
2D)' HD)8 ' ' J D)#<' < ' ' D,<9)<+D)<' # #'
' <FJ' D)2E' # ' _' <F#J' #<' 2D)# '
<8J 2 ' #YD)#2JD)# ' J <J <FD) ' J ' JF8'
I4 9 J 2DD' < ' 8 ' _< < E JD)# 8'
' D)#20J ' D) ' WDJH 8J ' .F 0 D)028#J8'
J D)< ' <D,J<' _' Y_ F<J ' ' I)`2D)82 '
J < D)' 0<# 8 ' _' 20J#228 ' J '
D)<J<I)# #' ' 8 D)# ' <8' J < D)' <D)J<'
_' <8 D#J #22' 2 F' J ' J <J<D)J <' #22' D) '
I ; 2D282 F# ' ' #22DD' <D) ' 8 < ' _22 D) ' _

I 2 +F ' <8+## ' 8 ' : F8+J8 F ' # ' SF E'
#8+F ' +8 F# ' F-SF8' E' + E#J8-' # ' 8++
JF-' ! F#E80 E+ #' # ' 8' " F +##'
J2 ' -8' -F + X# ' J 8' ; #G#2# -' 18- #' ! '
JH 82#-' 8 ' # 12FX# ' # ' 2 JF ' / 8 H #2
$7 ' H E#8 Y' # J ' 1#2# ' 8G# 2E# ' 8
G# ' # 8+ # -' ## ' $ 82#F ' # 8+'
2 8 -8-' 8 ' ! X 8- ' # ' SF ' J8J#E8+F '
F2 #' #28- ' ,KAY' $+-8E ' J ' <8+'
8EHF ' ' +' 8G8 ' J# 8' '
+J -J ##-' ' ' +#-' +# # #- ' E 88'
F# ' <+ 8E -' # G8 8- ' 8 ' JJ#-F-' 8- '
' 8 ' # ' 8 ' 8X<8E# # 8 ' 8EHF-' 1#2#F-'
8 8 #G#' " F 8 +' & J --# +F @
&F ' 1#2##' + G##' JJ#-#' ' & =8 E @
X8+J# F-' EFJ F-' ' 1#2# ' 82 #' 8
' " #2E ' $ +#J# ' 8G8' -- +# 8' JF '
2#8 #G8 #- ' G8 #8 -# F- ' 8 ' -- +#8 -#0'
F-' # ' E 88' <8+I8 8+F ' E'
28J8 -8 ' JJ28-# ' +#' 8 ' J 0'
F--8+F ' +J8 ' +#2#G#8 -8 ' 8 ' '
-8' << -F# ' 8#-' 1#2#F-' +# #' 1F# ' 8 # '
F J' # ' # 8+ # ' F- + 2# @ ' " 8+I#E#+'
<-' #2E 2F8 -#-' SF#8I#
9 2 ' #' 18+# ' 2F ' XX#X ' & 2EF-' 8X' K.'
/ # JH+ JU# +F ' E 8 -#F ' SF#' E 2 -8'
G8 ' <+ 8E -' JF ' 8E ' ' +' 8G8'
J#a ' 8>' JJ#E8 2#' #E# ' - F2# '
<+aE -' # G8 8- ' 8 ' J < #I -' F2 -' -8JF+
$+ 8E ' J ' <8+' & 2J --# -' # +J + '
SF#' - F28+F ' # E8' + <#= + ' <2F+# '
8 ' JJ#-#' -F ' F2 #' & 2J --# + ' # #' R'
$+ 82#F ' # 8+' &F E 28 8F ' -FJJ8-- +8 '
$ +#J## ' 8 ' F+JH EF ' ' 82-8JH2 '
-FJJ8-- +8 ' / # E #' 8 ' 2F a0J#228 '
<FG 8-' <+ ' + +F ' 82#SF##- ' 8

' ' " ' !

! !

U#|1F) ' D)8|82' ' J28#<J# ' #' n ' ? " !' 8 #)# 82 b' 28E#' m## #D)<<D)#|{' ' D)I D)|' ' 8 F<' # ' I_ F#<8| #.' ' ' <' D!' 28#J{' D)#2J' ' ' F)<<' <D) <J' J <<' 8JJ <8J ' 2D)' 1I2F<J ' H' <9)# ' D)<' <J 0' <FD) ' ' F8' J<8J ' 8< ' J <' 2 #<J' D)# 2#? ' J#22#' ?<# D)H<D)J' _' { ' J <8D)#<' < JD!# 8' <#

.K' 9 2 ' ## ' !' !' n!' 8J<D)# ' 8<<' J8 ' J< J)yU' # F D)F' ?!' G '4' J8< D)JD)# 0 F#J' D)< D)' ')J ' ' y; 9)82<')2 ' # D)# #<J<D)J ' D)<' D)# 82' 8 #<' 28#G# ' _' S48 JF<' _' <#2# 8{J' _' D)#<J8 2' # ' !" !' 9 2' ,!' ' ' " ' @ ' ' n !' " !' D)<' 8' q))2 ' <' D)22<D)# 8' !' ' D)22' 8' F#J' D)< ' ' 8 ' ' D)82<

._' #2!' ' ' !' !' b 8E ' ' 0' JD) D)' <' J)#<2' J' ' EJ ' 8 ' q<#<F0 9)0' D)J' _' 8' 8#22 ' ' m2FDD#<J' # ' 9 2 D)< U J q{ J <8D)#<' 8' 21# 7' }4 # #F2 <' U_D)82<' ' ?m< J8< D)# ' <' 8<J J' } 2#' !' f' 2F<- ' #' FJD) ' J DD< DD)' YD)<<D#' _' } <<' J' ' ' F J' {8 ' D)<' #)# 8JJ' ' D)#<' 8< #

.C' 9 2' 4!' ' !' 4!' !' !' 2F J' <' ?A22 D)' # 9)< ' ' } 2' 8' J D) DD ' <' _

; #J +# ' < + ' 8- ' <8+' -FJJ8-- +8 a' $ +#J##' 8 ' <8+' F2F ' 8-F ' 8 ' J #-#' -F ' <2F+8-' # #' 82EF# F-' 1#2#F-' " #2Ew0 E+ F# ' <#-J <F-' 2 #U##8 ' ' SF#' G+ EF-' - J+ -' J28+#J#-' J 18++8' - 28 U#' # ' H+#- ' SF#0' 8 I # ' ,K Y' 8 1 82 E#F-' 8X' &# #E[' + +#yZ ' JJ#-F^f' ' J + ' 1#[' F0' +8E G#' 8G8' 2 8+#F-' E# #E[' + +#w' " #2E -' $ +#J# -' 8X' -- +#-<'< ## ' R$+wE ' 81 ' ' +J + E##-' <8+' F+JH EF ' ' +# ' SF#' - F ' <+wE ' 8X# E8 ' 8 ' J F--# ' {J28-# ' <#E8 ' } #220 / # 0' E + JH8 -8 ' 8 ' JJ#E# ' F2 -' # #

9 2 ' ## ' 18<# ' F ' X ' 1 E#F-' <#-' -F<+8 F-' 82yG# - +o ' #w' SF#8 I # ' / #2#F-' } 8+ 8J F#' $+ J8+#' JJ#-F-' ' ##J 0' + ' ' 82-8JH2 ' / 2 F-' - 8+##' F 8 -#- ' FJ +' # 8+ 8 -#- ' ' $+w28J0' +' HT 2 G#8 -' SF ' #- +#JF- ' $ 8 ' 8 ' $+ <H8 ' E#8' I ## ' 9 2 ' & 8J8 ' X I #' F ' I # ' 1T2#J# 8+' # ' > < ' 1# #I # ' E +F-' 1#2# -' / 2 #' 8X' 2+ E#w ' UFGF2 F-' 8- ' & 0' 2EF-)' 1#2#F-' $+ J8+#' JJ#-F-' 8- ' ' J + ' ' 82-8JH2

' 9 2 ' 18+# ' #I ' F ' e) # 0) & : JH E' 8X' --82# ^' JJ#-F-' 8- 0' $+-82#F ' # 8+' / #+0' JH8 -8,-' 8 ' 1# F ' # 2##' ' F +J ' # 8 ' 2G <JHF ' # ' S {' <J{#-F-' 8- ' 1#2#F-' # 2[' JF ' F -' 2##- ' 82+F G#F-' '/ G + #G ' 8X') F- <F2#-' 9) ' JJ#-F-' 8- ' F+G #F-' b ' F ' -FJJ8-- +' + +## ' 8 ' <#-J <F- ' JJ#-F-' 8- ' ' -F#-' < - ' +8E# F ' +8' 8E# 8+ 8

9 2 ' ; ' 18+# ' F ' [' ' ; @' F# JF-' 8X' 2 #)' JJ#-F-' ' 2 ' 1#2#

B C' %'?4' 67T' ?4' @'(;=@'8' ('8' 0' :4 7''4' ?'; (' 8=5 ' '5' 4 " 0' :%' !' f ' @!' ;999' ' 4 ' '5' ' 5?' ;4 ' %=;4

" 2 ! C

<8JH H ? 28 H : J F## _ 2D)## BD # J
J I #1 . 2 J ;#U9) #FD) # 8 2 8
1 2 #2 #< I_#F# H # J < 2 # J
2F# 8 J _ J F1 <## # h J <
<# # J J <h J JH J < 7(8
<# # J < < H0 2# 0
< _2#2 8 _ m # . 0 < 8) J < 8
< #28 <28# < ## JFJ J J <# _
J <J< J < #2# 22 8< 2 + # <
2 8 2 J #22 # <# <88 _ # <
_ J J2# J - #2 <# D)X
< J < 8 # # <# , #J 8J
8 <### 2 # < <# ?222 < G 0
J 2 # J # 22 < J 8< #22
< H 8 < JH < 2 : J H
82< J<# 8 #2? h H 22 8#2 F
12F #<J J A)

& 8H E# <8+ E 2F ,KBY $+- E J
<8+ 8EHF + 8 <8+ ! # J - SF#
I - I8+F H+ X8+J# F- EFJ F-
1#2# 82## # ### J F - - #
8+#JF 8 << -F# +G# 8 8# & 0
J EF- 1#2#F- +# # SF# G8 - - # <+-82#F JF
8 8 I#J +# < + 8- E8 1#2# +# # 8
JJ#-# -F # # #GE F- -FJJ8 - - + !
2 8# 8 #G +E F- 1#2#F- J + 8#
8 X 2# a 6 8 / G8- F 8-
<+ 82#F #- FE 8 JJ#-# -F <2F+# # # #
2 - - #- JF 1#2# 8G#- & +F JF
2#8 #G8 #- -F2 +F +8 8 -#F 8
FE8F-#F 8 &F 2# #8 -# [F -F #0
G8+8 -# # 8G F ! X F ! 8E &8F-
J + +#F- 1F# 8# # +8 #- J 8 F-
1#2#F- / # 2 JH#U-F<+8 F- 8X 2 # a 6 Y
SJJ#-F- 2J 2 1#2# & JH E#@ 220
+ HF- ++ 2 8X 1F F+F- 8 +# a
E -8 JJ#-F- J ++ 82-8JH0

B C ' '2(; 378 . 49 2: (5'A (; &: 4 3 <'2'78 @(8' ' ; ; 488' (55= -ZJ 1 458' : 58 5 '5 2(34 ; =
@(! !) K 55= - # (2! (5! <4 ! 7 (; 378 2: (5'A . 49 (%2(2; =21= <'2'= =54 : (? = ; ; '87'!Q 4 5(; !
=8 4((? 475?41 (55! 87 : ?' 7 O A + @ - 5K 87@ 41 78 2: (5'A . 49 ((2; = : 5= <'2'=
=5543(? 7; '?(78 48 !) (2; =25'58 . 49 - , N +) '! 4! (2; =21 78 ; = 5=145 =
; # a =5543(? <'2'58 (55= - . 49 ; = 'A 999 (55=8 Q '!4! 78674 (? (55! M 67= 4 5(; 2'
=5 '57(= '565' K (2; =21 78 <'2'78 75543(? . 49 2: (5'A ; '1 ?V(?= <'2'= ((5; '8 = ; ; '858 48 4
K @ A 1 = 4 ((' (=5G79 '5 4 !Q) =1 '54 . # '5 42 = 1 (55=8! 41 @4 ; 71 (' ; =21 78
5 2= 51 (? 84 ; =5<5 '45 '51 ; (78('1 @4 ' 58 '5 = 371 : '(1 8A@4 54 4 67'5 ('; 4 . = : 4 =V : (L
= 3' '1 : 'A =1 2 '8 ?=2= ; 71 <'2'= ?V(?= 85 ; 47 : 5' ! ((' ('5 ; = 'A (=5(1 (241 45 4 9
(?8 ; ' (8= = <7' ? (2 =1 ' '8 9=7'A = =5A 5 A : A 4?'8 67= 8'54 @ ='4 ?4<75 ; = '?41 G78 (?
8= = 41 ?4 =27 71) (@= = ?1 75? 2(4 '8 <4 4'! . 4 '8 5 2'A 49 ?V(?= <'2'= 4 045 '; !
1 @4 (= '(49 (3(<'2'(54@ '8 4 (57 (5 49 754 55?(1 @4 ('; 4 @ =54@ '8! (2; =2'5= !
455' @ A 4 @ A?'; 71 ?V(?75' ? (71 249(5? 71 4 ('?41 ; = 'A . 4 48 (p'?(1 045 '; = !
5 2'A 57@ (1 (55= . 4 '5(1 5 2'A '5?X& 78674 (? = : '51 (55! ! ('2?A : 7'4 <'2'(4 (49
045 '; = ! (2 4 (('2?'8 045 ';] 4 '5(5'A 1 @4 ('9 @=8 4(84; Y5?= 57@ ( ] (2< '?= 2(5 (454 = 5'
5?4 (458' 72; =5'8! 0'4 =8=2L 1 A . 4 '8 <'2'= ; 7 4@7' 045 '; 2'1 D'D4 ' 4!\N5G78 @ = 45'4 =1548
5 2'A . 4 48 78674 (? 045 '; 51 % ! 2'54('2 = 875 !
B -C (?41 G?14 % (; : ; 36 : (: 45 55(2! % ' ! (? @55! - ! . 4 5('H 541 @4 + $. @ (:
(55= (? (5571 '8 7 ('! 4! (55 8 (1' 7 5(((145 4 78 2: (5' ; 51 ; (5 (51 '5 5(5 ' ('=54
(2; =21 ! 7' (2; =21 2 ' ! 49 =5(?(<'2'(54@= 87; ; 488' 674 4 <'2'58 72(; 378 849 1 458' : 58 7 87@ (!
7 (; : = 87; ; 488' (/; = 158

! A " ' !
!

' & 2EF-' 1#2#F-' # 22#' ' F +J'
JJ#-F-'8- ',,' ' Y

.L' 2J n! ! ! ! " ' : J '2 J'
_' ' 9< D)#' <# #X) < J1#' 8D) D)' _' F E D)'
?$0F' ' # <y # vJ' # ' ,I?2 I#2#9) ' J ' # #'
' R<D)< # ' < ' <' D)' F#J#U ' D) ' #'
F#<J8<JDDJ' 8' D)2 D)# ' 8' D)82<
FD)' D)82 <D)# ' < ' J8 8 #2' D)#22' 8J'
'D)#J <# #' I2FD) <#'H ' D) <D)' < ' H D)'
2 <) ' ' F# <8 ' ' #+8D) <D)' 9' <<'
J' ' D)J D)2' ' J# 8< D) ' ' 8 ' '
D)8 D)' ' <FD)#<8' < ' <8<< 8' 4_' D)#<<{' <'
< ' ' D4I8' ' m2FD)#<J' _'D)8 ' ' D)#<J
F 22' <8D)8 ' 4#F # ' 2 ' JDD1W #D#J' '
D)#2 D) '#< ' F H ' J ' < ' 2 #<J' F '
8' D)#,#' _'D)8 D)J J8 #' _' F ' < ' F < '
D)2' ' I2# JD) ' < ' D) 2# UD)' JT# < ' 0'
< ' 2 ')` <J ' ' #2< { '
8 # ' _' ' D)# ' _' U ; 2 82 < '
' < z 82 ' < ' ' F<J ' ' D)'
I_ F<JD) ' ' I_ F<JDD)' ' <#JJ' < ' ## 8<8'
U #F 9 ' D)< ' ' <# #' '
< 82 ' 'qm< #<J822' J < ' 1_#D)3 #J'
P' <' _' 2 ' 2D## F' ? " !' JD) ' '
<9) ' ' F2' J8 J ' <# <#' H ' :J DD#<'
<' 'JFJD) ' ' <#) <' ' <D)# ' # '

' ' 9 2' ! !' !' W!' { F<' '2 <J9 '
_'28#J-28 ' 8D)' # W<J#' ' {#228' _' F

9 2' J +F-' ' 82-8JH2G ' J 0'
F--#' 8 ' I - I#' +8G# 8-' /# E + 8 w'
w' 8 ' &]Ew' X8+J# ##-' EFJ F-' '
&# + # # ' 1#2# ' 82 #' #E# ###' F1##'
+82#SF#' F2 -' -## +F ' JJ#- - ' JF ' F+0'
J8+ JH ' 1#2# ' & 2 G#' 1#2F' 82+F #'
22F-' ' 82E + G' 8X' J2#8 82 ' 22#'
##' # ' < 8 # 8 # ' E8+yJF-' ' " + '
8X'1F F+ -' FG #w' JJ#-F-'8- ' &F +J F-'
' + ' ' -F#-' JJ#-##-' 8- ' 2EF-'
1#2#F-' #G8+ #' 1#2##' # 22#' 1#2##' 8E #'
' F +J' 8X' +811 #w' 8 ' +#8 2#-'
J#w' JJ#!F-' ' 8E1 ' ' F +J' 8 '
' 8EH ' 1#2# ' + HF##' J +#- ' $+w0'
E +#F-' 8>8+J# F-' EFJ F-' ' &# + # # ' 1#2# '
82 #' # ' 2# ' F #' J F--#'
F # 8 F ' 1#2##' G +#' 8 ' F E# -'
8E8 -8-' 8 ' F # 8 F ' /8+ E+ #0'
G #F-' ' # G '+8X'1F F+ -' 8 +#w'
JJ#-F-' ' F+J E ' 1#2# ' &# + # ##' "#2E -'
8 G8+ -' 8 ' "#2E -0 G 22F-' 8 ' 8 '
+E F-' ?1#2#F-' / 82 #' JJ#-#' ' F+)'
JH E ' 8 E8 ' F+8H EF-' 1#2#F-' F+0'
J E#' ' +#JJ' 8X' &8-# +F ' #w'
JJ#-F-' ' 1#2# ' "#2E 84 +#G#Ew' '/ 82 '
'/ +J8 2' -FJJ8-- +' 8E J#' # ' 8# '
8 ' G8 # ' SF#8I# ' & J EF-' ' +# '
8X' #w' #I#' # ' E F '0 E8+#J#'
' +' J#w' 8 ' E8E8+F ' 8#' +#'
F 'J < #I +F ',K_Y
49 2' I##' 18+# ' 2F ' XXI##' 9 82#8 -#-'
JJ28-# 'J F- ' 8 ' 8# HG2# ' 8X' < + 8

B C' (?y' '<4 4' (:45 ' %' (!' (?' (55!' - '' 4 1 674' 22 =5'45848!
B ZC' (?41'<4 4'3(:45 ' %' J (?' (57!' -M!' =o4(?=w' I '(5 '?y' 67=' 3'4' (' (' ' ; (' ;7" =@4 '1 4((1'
' 7(2' ' 4 78 " 0' :4 5' ; ' ' '5' 3(;' ' : 2'= 34 ; (' =V4@84' 84 (' '?' ; (' ' '<48 ' ' ' $ ' + ' '
(' 5= : '8' 4?' (' (55=' , ' '5' @@45?' ; 4' (?' = 1 ' !

<=;4 ';bU" := bb@ #'5 ;27bU5bb!5'! '=' ! ;=< 7;
CJ?: :W7'';' '5='<" ;@=' ' 'bUL;@4:;! 5! Z'
;=@ ' #U@:'U: :'L' bU5: '! 1 4' 24C ' ': Z'
=;2bU; 422 ;=@='@'@ :'?' Z' ;'?@?5' :42:5?
' 2?5:'?' ' ;=@ ?'@ L4: ?5' ?@' ?5 ' '1'
@' :?'"':5? :! &@=;?@;?' ?@! 2L4'@':4' @=
'5?@:''5' @4< 2485':! =@=;3; ;@= ?'5:7
;@4;354'@ " := 2= ?@5? 5?@?4 ;= ;27?@5
@4'@4@;?': '?@?'55!,25?:!:!2=;:2?':!@!
=@;='5@7?: V! ~ <%2; :@'?'5' := ?
;4?;3' 1' < 2?'25?1 := ;= ;74' +U4=';' Z' 1 ?'54'
V5:? :=!

- ' 1 ; ' = ' ' ' ' P ' 1 '
' ' 1 ' > > '9' ' 1 '
' K ' ' >
' 9' ; ' ' = '
' 1 ' ' = ; ' /34= ' g >
' 34 > '
D ' ' ' 9' ' ' 7 ' '
;
=
'1 ' /4 '
' ' ' ,
;' ' ; ' : v n ' >
' ' 2 '
;' ' 9' (9 '
' ? " ' ' : :
V ' = ' ' ,

G ' 2## 8 ' / J + # I - I8+F
2F J -# ' 8 ' - F28+F ' J < #I -
F2 - ' +FJ8 ! J+#< F+ +F ' 8 ' JJ#E80
+F ' EF - # #' 8 <8 F F '8' <+ 18-- +# F-
8+ +F ' 8 ' SF8 E ' 2#F ' SF - &8 -
8 ' # + F- E8 # ' I# E#J ' W # -F '
8XJ# I8+F ' 8 # ' &82I# # - E 8 - # -80
SF8 E - ' SF# JJ#E8+F ' <2F+# - 8 +F '
8 ' '/ J + ' 98G8+ ' 1F F+F ' 8 +F '
#- 8 # ' 8+ ' SF# JJ#E# ' $+ 18-- +8 '
8+ +F ' 8E#8+F ' &82I# #2 E#2FJF2 '
E#8 -8SF8 8 ' 2F # ' #+ JF2 ' ! ' # 0
+ # ' 8E#F- ' JH2# ' 8X' +J 0
+ 8 -#- + FF- 8- ' / #2#F- +# '#I# ' # '
E F ' 1#2## 82 # ' 8 ' E8E# ' G8 -
8 ' +8- <+8 # - - F2 - 8#
9 2 ' X8+J# F- 'EFJ F- ' 8EH ' ' + K '
' J F--# ' #220E 02F ' 8 '
8I8+ # ' +J8 ' # 8 + E#-8 1F E# F- ' 8 '
J 8E8+F ' #2# 8- ! 2 8- SF# 8+ '
' ; #I +# ' 8 ' F-8+F ' ; #I +#F ' 2 <#E#0
F- < - 8 ' $8- #28 # ' # ' G8 # ' #'8'
$+ 12F I#F ' I8 +#- ' 8 ' I#+#F ' 8X# # # '# '
F ' <2F+# # #8+# ' # E8 ' <+ 8 8+ G8 #0
8 -8-# F+J EF- 1#2#F- &# + # ## 1#2##
82 # ' + -#I# ' # ' # ' -F2 '
, 8 I# Y 8 ' - F2# ' +# F F ' # E8 ' 8 '
I#J# ' # ' <+-82# ' 1#2#F ' 8G# 2E# , ' ? Y # 20
2F- ' 1#2#F- 82-8JH2 # ' 8X 2#J # 8^ ## '
/ 2 F- ' 822 #GH4 8X' +8) 8 JJ2-F-
' ! ##- ' <#-8 F+JH E# 8X<FG I8+F '
JF ' + -8 ' 2 JH ++# Y 8 ' 8X<F28+F '
' + ' " + +# F- ' / 22 ' JJ#-F- '
" + # ' ' HF- #G 8G8 +8G# +F '
" + +# ' 8X' +8G# 8 + FF- 8- ' '
H 2 8X' G JH 8 EFJ F- 8X' JJ280

B ' ' !

BY#D)22 #2 1 #D)#2 ' < ' J8 82 ' ' ' n !' ?!'
*G2*2 ';:;'U;' :@'bU' P='#U@:' ' s;=:!' w
<#9

KA' xxG>'L ' ! ' ' ' 4 28' E' : '

J D)#<h'2c9)< ' '# 8' m2FE# H<# <82#
JH ') 8#22' ' J D) D# <' F2' # ' f '
#_D#20 <D)#.' # D)< ,)' 2D) ' J#22# ?!

K ' ' ' T ' A!' 2F#' 8#<#' J#J
J 2#' ' !' # #<' # ' < ' 8<< #J
H '# D)82 # .' D)<' J -8< ' D) .E8 82
' ' D)JHD#2 'h JD) D)' < ' ' D)JH'
_' 8<JJ' <' J' ' ' q)# ' <F#28' l_ J'
JH' <' F2' ?!' 2F' 9' #< 82 EJ' '
<9)#'_' 8' _D)#2 D) ' J <' 2F#<J'
<8J' 2### 8JH' _' 2FD)JD)#<' 2D)< # ' 2 '
8' ' <)#'_' 8' n 2F<J E '8'< 8F) #
#<' J,D)< ?' D)# ' JFE# ' J m' D) <D)J
D) D#2D)' #J' #F) ' D)< D)JD)#' D)' ' J JDD<0'
<D)# ' D)#< 82 D)J'#EJ' ' 8D)< c # 82D) ' _'
#J8<' JD)JH D)JJE<F' J < F#-' D)< 8'
<)#' _' D)<D)' 8' J <' 2D) ' D)' D)< '
8 E' 8' F 2' _'# ' ?m<D)82D) ' # '
1 #F<J D)' <' D) D)'2 #-8 '_'# ' JD) 0'
2D) ' ' F) -

-c ' <#E8 ' 8 G#' 8 ' JJ#-F-' /#2# -'
&F 2 G#' 8X' #' +#F # +F ' SF#8I# '
E8+#8F-' '/2 H8+ #' JJ#-F-' ' 8EH '
' +' ,KLY' # 22F-' 1#2# -' 82-8J 0'
2 #' 8X' 2#8 82 -' G #' # ' H+#- '
SF#8I#'/ !;' /2 H8+ JF-' ' +# <'
JJ#-F-' ' J + ' ' +#
9 2' ###' 18+# ' F 'X## @ H E8F-' 1#2#F-'
8EH#' ' <+' JJ#-F-' 8- ' ' 1#2# ' 0'
E8+#J#' E 2 -8' JH E#F-' 1#2#F-' # 22#'
1#2##' JH E#' 8X' 2 # 8' + FF-' 8- '
' 82E + G' -FJJ8-- +' 2F -' J#228'
SF#8I#
9 2' ####' 18+# '2F 'XXI##' F-' F2 # -'
J2c' # 8' +F ' . A' # -##' X#GF#'
H#J' 8- ' ,_ Y@ "#2E -0 ++ H' ' 82 # #G'
-F<+8 F-' $+# J8<-' " E82# +F ' + FF-'
8- ' H 2EF-' 1#2#F-' & JH E#' 8X'
J +F ' 8 ' F- + 2#-' # 8+ # 8' JJ#-F-'
' I#+ ' J G # ' ; G ' #' 8'
2 #0 JF2 +F ' /#2#F-' JH E##' 8X' 2#0'
E# 8' SF#8I# @ X8+J# F-' EFJ F-' ' +E820'
JH ' ' +# ' 8 ' '1#2# ' 82 #' E 88'
J F--8+F ' # 8+#JF ' 8' 2F J +'
$ - 8 ' -F<8+I8 c' 1#2#F-' 1#2##' +# #' JF '
8UF-' 1#2# ' +JH E ' JF ' # G8 #' F2 # F0'
E# 8 F2 + !8 F '# +8G# 8 ' +8 28 '
E 88' J8<8+F ' <+ 8E -' <FE' 8 '
+E JH #G' # ' +8G# 8' G #' 8' F2#'
+E82 JHF-' <+ 82#F ' 8#-' <+ <8' 0'
+ J ' ' # ' ' G8- F ' 8- ' <+ 8
2#F ' # 8+' 8 - ' 8 ' I#J +# ' < + ' 8- ' E8'
1#2# ' +# #' 8 ' E8' 1#2# ' 8UF- ' 8 ' - + G8-'
1 J ' 8- ' <2F+# + 'JF ' 8E ' 1#2# '
&F 2 G#' 8 ' J## ' / 82 '1#2# ' F+JH E#

B MC' 55(2' 2 !' '4 ' %' (GN!' (?' 4=5?41' (55!' 4(?41' 45((5 ' 65A' ' 41(;:!
BZ C' ?4' 65J' ?4' 3=;' L;2=' ?'4 ('875 '87@ (' @ !' ' - Z ' , '4 '@5484 '1 ' @!' !

" ' ! C .

W Z

9 ' 1JF ' 2 J ' J D)1# D)' <D)J1#' { ' b +#JD) ' ' <#E# ' < ' < ' V,;)' c ,,' ' + <# D) ' _' ' F2' ' ' R ' $ ' 22#8 ' : 8< F#2J ' _' 2 < F # ' #J<# 8 ' ' # > (8< ' _2< . 2' ' 2 J2 # ' H' 8#2 ' '

9 2 ' 2F ' <- # ' 20 0 #< ' :# #J 8' _' ' F# ' I_2 # 8' 20<8<+) Y<8 # ' ' < # ' < ' # < J' # ' J8' F < 4' ' <#.' < ' J < J < # ' < ' #' :#8 ' J' ' 8#22' ' I2F #<J' < ' <8< 8' _' ' # -0' ' J822 # ' _' ' - ' ' y28 ' ' J #< # # ' 1 << ' < < J' 8<8' < J' # < # ' ' < <- J' # F# < ' _' ' $ ' JFJ J' 28 ' ' < #<<-#' # < 8 < 2 < < ' # # ' h# <# F#8' F8' # ' ' 82# ' _' ' ' _' ' <2 #J J #-' < ' 2 ' 8 ' ' J #< <# ' J# ' # 2' ' <F #<J ' 8J' < ' 2' J ' # ' 8<8' <8<J # ' # < # ' 1;2J' 1 # #2# F #' ' 8 2 #< # < ' 2 ' F ' :J F#<' | J ' ' y J - # ' < ' F2 ' < ' 2' J ' f ' b J ' ' 2 # #1# ' < ' b 2 < # 8' ' f ' 28 J ' # ' # ' # 82 ' < ' f' 2 ' G8 < H ' 82< ' I2F<J ' ' <# # ' ' F2' ' 2 < <8' J #<< 82 ' ' <# # ' ' # 0' J < ' JF<' 2 ' < # 8'

8G8' 1F F+ ' G8 # 8' 8 ' JF ' !J 2 ' 8< 8' &F 2 G#

9 2 ' &F E 28 H8F-' -FJJ8-- +' $ +#J#' KB' SF#8 I# ' & J EF-' 1#2#F-' +# #' ++ 8# 8X' # 8' 8X<F2-F-' 8' +8G ' -F ' #I# ' ' # ' <8+8G+# # 8 ' F-SF8' E' # F ' 8 ' < - ' < 8 # 8 # ' F- 8+ ' , ## Y' # ' - 8+# ' ! ' ! 8< #' ,_ Y' +EG 22F-' 1#2#F-' JH2# #' ' # 2' +0' FF-' 8-

9 2 ' F ' &8 I - # ' 2F -80 J0 #-' ' K.' J ##-' 8 ' ' #0 ##-' 2F 0' 18+ ' +8 E #' I - ' E#8' -8SF8 8' #' -F ' 8G8-' SF#' <+ 8-8 8-' E8+ ' <FE' I ! # 8 ' #- ' 8EHF-' 1#2#F-' 1#2##' # 22#' ' F +J7' 8X' +81 #-8' 8 ' 1#2#F-' H E8#' ' 822# ' 8 ' 8UF-' 1#2#F-' 8< +0' I# ' 8EHF-' ' +' I#J +# ' E8' 8#-' E#8' -8SF8 8' <+ <# # 8' ! ' " #F+ ' # ' F ' E8+82# SF8+8 ' J 8+I -' -[-' 8 ' I8-' SF -' + -I8X8+ ' ' +#' JJ#E8 2#' <8+' 8E# 8++ 8 ' J# 8' F-SF8' E' 12F I#F ' ' !8 F ' &# + # #F-' 1#2' H E8#' ' 822# ' 8 ' 1#2#F-' 8UF-' 8 ' '/2 H8+ 8F-' JJ#-#' <8+' 8EHF ' ' +' 8' 1# 8 ' #' 0 ' F +8' ## ' 8 E8 ' ' #+ J 2 ' ! # + ' /#2#F-' 82 E G#' ' 2 -' JJ#-F-' <8+' ' +' & JH EF-' ' HG ' , ' H Y' 8X' 2#E# 8' <8+' E 2F ' JJ# -F-' 8- ' & JH EF-' ' # G-#G' 8X' & 2 + E#- ' + FF-' 8- ' 8 J F-' 1#2# -' 1#2##' 82 #' 8X' " 28 G# +F ' JJ#-F-' 8- ' ' J + ' ' 82-8JH2 ' F+0' J EF-' ' +# ' #I# ' # ' J - + ' +E82 JH#

BZ C' (?41' ?4' =:' 7' =54: (?' 3(:45 ' % (!' (?' 475?41' (55!' ' ' 41674' 55(248' 2 =5'45848!U' %'?4' 67A' ?4' 4=' ?'4 (' 875 ' '5' ?48; '@ '=54' @4 = R' . ' 7(2'8' 0':41 ';' ' 84 (' '5' 3(;' ':2'= :!' =V4584 ' '5' ((2= =' !' =V458!' @@45?' (?' ! ' =!' !

K " ' !

J A! ! ! D4;2bU 1=' bU; '5 5 bU :?2

' ' #< ' D 8U# h+I)# 9c<J # J)## J 2##J' <J' 9 2' ' !' ' <# <8' < 8' , !w' ' <#22) 8' J 8< D#<J0D)0+D)< ' D,# 8' J < ' _' E J8 h' J8S 8' D)#D) h #2 P' <F#h# ' h # #)#22 ' # 8< #D)# ' E2 D##< ' ' 8#22 FD)' <FD##<J < ' <8#< 8' h #D#< D)H h ' ' ' 2D)' JF#<<' ' D)#J h ' ' J #< F)#<J # ' J #28 ' hW 80E0JHD)#< <' 2 J ' 8' 8 ' _2# # h' #' H' J ' 8 ' ' 1)2F#<8J8 ' ?!' m I#J' UF hD) H D)' 8<+D)' h D)< ' 2 ' D)8H H ' 5 - $V' D)#<' _ D' - U ' ' F#<#J8 ' 2FE8 ' XXX' o# ' h' < h ' J#) E#<J ' D)#<h82 D)J H' <#E# ' _' ' 8' #2 D) ' h' D)8H ' : J ' D)< J ' 28 ' _' ' J ' 28# ' D#8 0' <D) ' J E< E' D)# h# ' ?!

K_' 9 ' ;2F<J #)h' ' <JD)# ' < ' h<# J ' _' < ' 22z ' h#)J J h ' D)h EH D)< 2 J ' E2 #h' h<28# 8' h <D)' 8#28D)0' J #< 8<<' J2 ' ' #< ?!' ,' ' ' 2F#<80' J8 ' #)#<h<# 8<JE' J' f' ' F# +)' J2E D) ' <#F ' 2D)' h)< F#J' ' D) 2 DD ' J ' _' 2D)# ' _' 2 ' h D)22' ' ' sXDS#' _' 2D)' D)#<h82 D)J ' ' <)# ' J ' <8<#)# ' F D) ' F#28' J ' D)8H H' : J D##< ' < # ' J ' JFJ' 28h' <<#D) D)#<J < ' < ' J ' D)< D)H ' J D)#< #D)<<D)#h# D) H # ' <

' +c ' <#XE' c J +)' 8 ' 1 J ' 8- ' - + G8Z' F2 +F ' # #

9 2' F ' #' ! 822 ' +# # ' #+ #2# 8+' # G8 -' << +F# ' # ' 8+8 ' E#8' + #-' < +I# $ -JH 8' ,# ' 8 ' E#8' + #-' < - ' & # #J ' # ' 2 #-Y' ' 9 28 E#-' ##-' E' XX###' F -' 1F# ' # ' <28 # FE# 8' -F ' 8 ' 2F 8 ' 8UF- ' F ' 8- # ' < <F2#' SF -# 2F 8 ' F a' 8 ' # ' +8 -# ' SF F +' E#8 F- ,_AY' " #2E -' + E# 1#2#F-' & 2E# ' 1#22# #G8+ G# ' 1#22# 2G +G# ' 1#22# # 22# ' F +J ' 8X' +810' #-8' JJ#- -' ' 1#2# ' " #2E-8' " F +# ' 8 8E# ' <8E8' I#-' # ' -F2 ') G A ' # ' JF' 1#2# +F ' 8 ## ' # # E ' 1#2# ' ' +#' > X +' F#+8J8 # SF#8 I# ' / #2#F-' G# ' F#+8J8 ' 8X' 1F F+F-' 811# 8' JJ#-F-' <8+' 8EHF ' ' +' 8 ' <8+' H E8F ' ' F#+8J8 ' $+8 #F ' XXX' F J# +F ' F+# - 2F F 0' ' + 82 J ' ' +# ' 8 ' ' 1#2# ' 82 # ' ? 8EH ' ' +' 8 ' FX#2#F ' <+-8 8 8' #<-#-' ##-SF8' 8 ' h+ F-' ! FJJ8-- +' #J# SF#8 I#

9 2' F+JH EF-' ' + ' $+ 8J#<FF-' &+F#E ' 8 ' <+U8J#<FF-' $+ 18-- +' + #-' $ T #J -' J#J8 ' -F 8+-F-' # ' 2 JF' 2G E' & -28 I#F-' ' " EH+ ' 8 ' J#28 J #+' <-' 2F 80 J0 #-' SF#8 I8+F ' 1 E8F-' ' F#+8J ' -F<+8 F-' 8X' 811# 8' hJJ#-F-' 8- ' ' " 8 8' 2 @ X8+J# F-' EFJ F-' ' &# + # # ' 1#2# ' 82 # ' JF ' 2#8 #0' G8 #-' 8 ' G8 #8 -# F- ' 8 ' JF ' & 2E ' 8< 8' " #2E 8' $ +#J## JF ' -- +#8 -# F-' 8 ' JF ' +E82 JH ' ' +# ' -# F2' JF

B 8' =14 (1' : (74' 141= (' : =5!' (9=5' (?' 475?=1' (55!' ' @!' Z !' ñ A' 0=;' (55=' (@@(5' ' =14 (' K' ' / ' + B' 55(248' =5(8 4 '' 72 '<4 5458'8' '5' 0' : 4 5' (' 4G78?41' =14 ^' (@@(' =741' 4<4 =5' (?' (55!' Z!' !' '5' 78A=' ' (5!' =?49' 2(45?=5' =!' , !' *

" ' !

— #

9)$1#'2FD)J'J'# F#2 ' #20#4' D)#JD)JD)1#
#'<8#2' <8)#< #8 ' q)28' ' ' m2FD)#<J
'F# <D)' '# #'J' B(<# XX'#J'
J8J' ' # #0 JD)JH F' D)#D)<
D)<JD#J ##: D)'##'M28'#' D) 8< E#'# J'
D)# '#' 8JH' '_' #<' <8 8'# '2#8 '
J'? 2#<J D)22' J'? 28 E' J)8 ')8< D##2'
_' JFJD)' JD)JH +9<') 'D) D)#' 8JD)<<DD'
'+ <JD)#1'? 28'# D)' 8< D)# 'D)#< <# GD)JHJ
F#28'_'JD)#J #2 #D)<JD)#<' H#)# '_' F' JF2'
9)'.D)8 82' JF#28' < E# '_' #<8D)JD)#' D)'
H' <# ' F# 8'#' ' '8' ' 8JD)J
F<' <' _' 8<JD)#' D)<' D)#' D)' 8<'
U 8<8J' J< JD)#<8' 8 ' D)<' D)#E#F '
?28 'H'<FD)#<J8 D)<# #: '9)< #

9 ' n_F<JD) 'H' <#E#' < E E' 8<'
' D)<'2 ' 8<D)#'J8 JD)' h H 2' F '
`I2 9 821' <' 8 8 #2' D)#' F# 8' D)'J<D)# 0
$ 8'<' #' ' <# '#' ' ## #<' 8 ' '
<8' F' JJ# F 'f
9 2' II J' < ' ' F #-' <#' ' '
? J ' < ' F 'Y_ 8J ' #F0'
8 '2 ' 1;2F<J ' J' # < J 'Z ' #20'
' ' I2# #' J <' 2 # J' _
) F<' 18#8+ ' _' ?? 2< <8J '<' < '
#' q)8#J 8' #J ' F#' ' !'+#q' _' <'
2 # 8 '_'. ;'# ' #228' <# 0

#8 -# F-' # F-' <+ 1#J2-J# F+' E'
8EHF ' ' +' #' J# ' E 88'
<8 F '18J#' 8EHF-'#' 8 -'# ' F'J8J#0'
E8+#' JJ#- -' # # ' +' # ++ E#8 -#-'
#8' 8X' # ++ E# ' F J - 8' JF ' F2 #-'
#2# F-' ;8##8+F 'E\# E8' +81 #8 -8-'
JF ' 8EH '1#2#' + HF+#' ' F +J'I -
8-' J# ' 8 E8 ' 8 < +8' F 8+'
K ' "8- F '\-' <+-T2#F '18+ X'I 2E8'
+ 28' #'8' # J#8 -8-' JF ' 8EH '
U# - 8'2 JF 8'1#2#' H E8#' SF#'J E#E#'
8' +81 8 -8-' JF ' 8EH ' 1#2# ? + HF+#'
J +#-' 1#2##' 8EH#' 1#2##' -8 #-' /8+G 2#'
SF#' G8--8+F '<+ 82#F ' - +8 F8' F +# SF8'
#' SF ' JJ#-F-' 8-' 8EHF-' H - 8' 2 JF0'
8' -F<+8 -' 8X' J# 8' #F-
8+ -' JJ#E8 2#-' F E#' 8'/ '
" E82# +F ' $+ <FG JF2F ' +E# F '
#2#F '8'#22F- +#F ' # 8+ # 8' ;#+' SF#'
<2F-' SF ' 2#F-' SF#-<# ' E +8' - 28 '#
EF 8 ' H8U- F+ -' F+F '8'8288 -# -'
8 < +8' -F '#' # 8+ # ' $+8J8-' 218++#'
- 28 'F' #-8+#J +E# ' &8#'J -8SF80'
+8 F+' <+ < 8+' -F ' <#8 8 ' 8EHF-'
' F +J' E' +8G F ' J# 8' 8I8J F-'
8-'< - 8
9 2' F+J EF-' ' +# ' 8X' 1F F+ -' KC'
8+ # 8' SJJ#-F-' ' 812!#-' & 2EF-'
' 82-8JH2 ' 8X' 2#8 82-8' G #'I#+'
82#G# -#--# F-' # 8 # 8' 8 < +8' -F ' '
1+ +8' -F ' JJ#-F-' 8-
9 2' J0" EH+ 0 '&F E #G' 8X' KL'
82#8 82 8' JH E#' JJ#-F-' ' ' 8 0'
E ' X8+J# F-' EFJ F-' ' F+J E '1#2#'
&# + # ##' 1#2##' 82 #' #' #E# '
J F--#'"+ +E# ' 8'/ +#F '/80'
JH# #' 8' +E 1 J # ' JJ#E#' 8F '
< - 8 '/8JH# F-'+8EE8 -' 2F '<+' 2'

' ' ?

V C " ' !

_ ' 9 2 ' I ; FI#J ' (' ' FD# D)JD) ' # '
#)# ' &! #9#-8 ' _
J2)J ' :J2# ' # ' J28# ##. ' H ' :J 2X)#< < '
KD) #H)' L < #9< ' ' ' q$*)22 #*)# '
.2F ' #E<E# ' H ' I_D)#2 D) # ' # D)< ' K '
2#8<D)# ' I_2#K# ' I_ F<JD) |' 2# +D) D)J ' UJ 0
E#< <' D) DD' <' K # D)< ' ' :# J # '
<82# ' ' # J' 1 4 ' F# ' <' 8<8E' J' f
' <8<#)# ' <8< 8' J ' D)#2#< # 2 < ' I_2F#<J8<0'
JD)J ' ' :J D)#< < ' ' ?m<D)#2 8' ' J)22' '
D! 8< <D)JD)#< <8

_ 9 2 ' ' !' ' _' ' ! !' m FDD <#
' D) D) D# ' <' #<# E #22' D)< ' '
DD82< ' < ' F2 ' | 9< ' ,_ 8' I # D)< D) ' # J'
J J < 8' < ' 82# ' _ ' # J' <#- #'
, 2 82 #F I# ' < ' <' J8 22' J' f

_A 9 2 ' ' ! w' ! !' |#D)< F#J' '
U 2#)#2 E ' < ' <8D)JD) ' _ ' # <' D)22' _'
D)J E' - B - ' _ ' 28 ' # -)' FD) D) ' # D)< '
2D)' J F<' ' ,_2D)82< ' D# JD)J ' D#' _'
D)< #D)#<8# J8' ' V ' # 8 ' FDD
q m<#D)#J' < ' F2 ' _ ' # J' _2#<# ' < ' ' '
' 2 <J' ' J8 8 ' _ ' < JD)# 8' 2' J8 D)

8 ' # 2#X# ' <8- #28 8 ' - + G8 ' G8 *8 -*0'
F- ' 8 ' & #- ' <+ 8 8+8
9 2 ' F+J EF- ' 1#2#F- ' &# + # ##' 1#22#' 820'
#' 8X' G8 #-8' 8 ' & +F ' +0'
FF- ' 8- ' # ' &F 2# # ' J + - ' 1#2#F- '
28+#J#' ' + ' 8X' 1F F+F- ' J#-8 '
JJ#-F- ' <8+' '/ 22 - ' " 8 F' 18++8F- '
' 82 ' JJ#-F- ' ' #E8 -# F- ' F+
J EF- ' J F- ' ' + ' 8X' 1F F+F- ' 0'
J# 8 ' JJ#-F- ' ' #< J ##- ' E 2 -8 @'
##- ' 1#2#F- ' 1#2##' #' 8X' 811# - '
JJ#-F- ' ' +81 ##- ' JF ' 2##- ' F2 #- ' F+0'
J8+ JHF- ' ' +' 8X' / 2G# +F ' 8XJ 80'
J F- ' ' 1+ +8' -F
9 2 ' ' E#8' ! #' 8 ' F ' XXI# '
E8+#JF- ' ' ## ' 8X' #+J 22# - '
JJ#-F- ' 0' 82+F G# ' 8G8' 2#E# 8 '
/#2#F- ' #G +E #' 1#2##' J + ##' 8X' 2#-8 '
8 ' 1#2#F- ' " #2E 8' +#G#E# #' ' 82 F E'
8X' / 8+J 22#-8 ' JJ#-#' -F
9 2 ' ' E#8' & # #J ' 8 ' I#' F '
&# + # #F- ' 1#2 ' 82 #' 8X' +# F '
8 ' -F2 +F ' FE8 -#F ' 8 ' &F 2# ## '
8 ' E# #E##' F- + 2#- ' # 8+ # 8 ' JJ#-F- ' '
J + ? ' 82-8JH2 ' # ' <+-82# ' EH0'
H - ' 8 ' - + G8- ' # G8 - ' 1 J ' & +F ' 8 '
G8 #8 -#F ' JF ' 8#- ' ,_ Y' '/ 2 H8+ J'
8X' 2#E# 8 ' 8 ' 1#2#F- ' 8UF- ' -#E#F- ' 8X'
' " H28 +F ' J F- #' # ' E ' # J8 - '
8 ' <2F+# #' 2##' -# #2# 8+

BZ C' 55= ' Z, ' '(1 ' '78 ' 0 (425(1 : " <'2'78 ' 4' (3' ' " 4 '8' 0' :4 5' 1 ' 841 '54' = 78 ' (: ' 55'= ' 45842(;3'
.4 4' (45' ^ ' Z ' =5;3(?" .4 '8' =1=5' ^ ' @4 ' 4 = '22(1 ' <'2'(1' - # ' 5=5' 4@=8 ' ' '5'] ('(5= ' 7;'= '
(45'= 71 ' (5= 71 ' 4 ' 78 (2'8' 0' :X 5' ^ ' .49 ' '5' ?3:3(' @ ^2'= =;;7:5' ' " ' ' # ' ' + # ' 7 ' '5'
=41 (4' 3 C5=2= ';= ' 67" 4=?41' 41@= 4' <2= 7' !' .4 !' 0' :!' ! ' =24 =1 !' ' ' @!' ,Z& !
'(1 ' '=!' 87;;488' ' # $ ' '(5' ' 4' 3(?4= ' < ' = ' 4@=8 ' 7 ' 87@ (' @(U!,Z ' 5!' ' @!,ZZ '
5!' , ' 4 ' '5' 5= (' 846' '4' ' 4!) 55= ' , ' .4 551 ' =1=5' ^ ' =5;3(?= ' '(5" 2'= ' 4 4@ ' '1 ' = ?42:(;3= '
(?'?' ' 67(1 '8' '@84' 4884 ' =5;3(?" 49' 4 = '22(' 2'(' 454 !) 55!' ' 2=5;3(?= ' '5' (2'(1 ' @728= '
7 ;2'('"?51 ' =5;3(?" <'2'=1 ' @=8 ' ('8' <5 (1' 71 72 7(5 4 (' '5' =55(;'(1' 424 (') .4 5('H' (:'5?4'
= ?42: (;378' (:8=27 4 ' 4 ' 8'54' 45' 45 '(' .49' =1=5' ^ ' = '58 ' (' 1 (" 78 (2" (?' 1=5 41 ' 45?(5';51!'
K' ' 5'88'171 ' 4 ' =@ '171 ' '5;'@41 ' 67" 5567(1 ' '5' 0' :4 5'(' 4 5('H\I' (@@422(H' 471 ' ((?=;78 ' #4 41'
0' :4 5' ^ '] 414 ';458'8 ' 4 ' E (28'5 3(1!

" p 2 ! L
! !

9 2 ! _ ! : J F<

8<8 8 E#2 M 8 8 <8#JH
D)<8#J E D)\ J 2 J2FD)# #< 8
8 |0J <E 2 #< 82 D)J H <#D) |F)
D) 8 JD)<J < I2##JD)| # J8 h J D)
; J FD)# 9 | D## D)<#< : b# 0<D)#2 # #<
#22#28 #^<#< J<#E q<#<8 _ #< F#2# dB
_ #)<D)#
9 2 ! ! _ ! ! hF D) ? 2<h
8<< ?)2J D) J2# JH <D)J8 G F JD)h
J822 D)#<h<J I_ D)# 8 J f <<8 <Fh < h 2

9 2 ` w ! H D) D) hD) <
J8 8 #2 5 D h 8J
I2FD)# 8h E#<h82 + <F)# J D)J
<#< 9) J < < 2D) <8< 8< # 8 h HF#0
, } (9)22 < #< 9)22 _ < < F22J < <
< J8 #E22 J8 8J8 #E< D)< D)h
h<8 8 h#D) ## <

9 2 _ ! I_ F<0
JEh F <2D)# h I_ D)82< h 9)< ` } H
, 2DD#+ 1 DD82D) < D)#2 # J2 #JJ8D)J
8 D) h<D) 1 8 F#2 _ D) D)< <8 < J
#< J8 <#<8 0J#228 2 # D)82< : JH

9 2 E#8 +##- 8 X I ## F @ 0 –
J - ' 82-8JH2 8X 8 +# -
JJ#-F- 1#2# 1+ +#- -F# # 8 F+J8+ JH
' 82-8JH2 0 E 2 -8 <F 8UF- 2 0
F <8+ I#+ 8 -8<F2JH+8 <FE 2F J0
-# # F-SF8 8 J + <8+ +E82 0
JHF ' +# 18+# I# 8 $ -JH
8< + F 8- #E8 J <F E#8 & # #J
< - 8 JF X F2#- F+8#- -# F2 #0
+ JF2 & 8# 8 # + # , _BY
9 2 E#8 <+# # U8UF ## , # 8 8+0 _B
JF+##Y 8 X#X F & F F- +JH#8<#-0
J <F- & F 2# ## # < J8 SF#8 I# & F 0
JH EF- ' 82 ## -F<+8 F- 8X # # -
JJ#-F- 8- 1+ +8 -F E 2 -8
9 2 E#8 # 8+ EF U8UF # , # 8 E#8 _ .
I#-Y 8 > F ' 8X
22# +F + FF- 8- " E1+#EF- 8X
2#8 #G8 +F ## X8+J# F- EFJ F- 0
+E82 JH ' +# F-SF8 I EF / #+0
E# - , +E88 Y JF J <##- # 8+ # 8 -8JF
E # 8 E - -#E8- +G# 22c#- 8
2 #8 -# F- ! 8E +8E## -# 8 -#E# F-
-# 8 <+ 8E < - SF J -- 8--8 < +-
8X8+J# F- -F#
9 2 E#8 F #F- J 8- # #- , # 8 _K
18+# I# Y F XX# F+J EF- 8< -
/ 2 # ' 82-8JH2 JJ#-F- 2 1
1#2# 82 # 8G8 & +F # <
#28 9 8228 -84 E 2 -8 8 #<-8 JJ#-F-

BZ C # $ I '(5 3(?4" <'2'78 '(5" = = 1 4" 54@=8 =5543(?= (7= 87u '5 49'2'5 1 @728=
85;;488' . 49 = '78 =1=5'(4 87@ 4 1 78 4 0 ' : 4 5'9 . 49 ;7 1 45' 45 '((55= (55'8 , , 7 87@ ((?
(55! , !) 55= Z =5;=:(= '%'(4284;:2(5G! . 4 " '?'(4 '' ;3(?78 8558 4 < (4 2(55: 54@=8
1 (558 49 ' 1 @ = '8= '5 72' 67= 4 1 @= 4 # $ =5;=:(" 4G58?4 1 =?'= <2((' X= 67=? ?7;(= '8
87' '((' '" <'2'" (425 (1 : ' 54;4 (@ =;7 (884 ?';4 4 7 ! 588' ' (654 7 =5;=:(" ;(@7 4 2''(5 1 (;5=8'(
45;= (1 (? 84 ?7;4 4 5 4 67= 87: =;72'8 4G78 @=8'2= 849 (1 (G= 8 34:?=1 (?(4 <4 '(1 78 '5 8'57 1 4G78
K 49'2'458 5=5 1 =?';7 1 4" 4 = 4 1 '5;788' @ (484 '1 ;7 1 ;(@7 '227? 27(5 1 (;5=8'(1 '@ u9' 1 ((84:('8
K =1'5';((??' = 4 '(1 (5572= (7 4= 42(7 1 <'''884 48? 4 !Q (1: 4 4 8! @ , ! % (! (? (55! Z !

" ' !

__ 9 2' 1' ; ; '_' 1 # ' 2FE# 0'
0 #1' ' J8##' J 'J8 <F22' 8< E
#D)<E #' I;2F<JD)' _' :J ' 'I; D)82<' K 0'
F#<' ' <8<D)#' 8<JD)' <' h 2' 8 'H'
0#< JD)<JDD#' 8' 9#<K82 D)J' ' <#E# 'K 8J'
_' J<D)K' 8' D) <8' K '<D) D)#2' J822' h#

_C' 92' 1' J '_' '1 # ' 28J2 DD<' '
2 # - 8 ' <' ?22< #E ' 8' _' J ' '
<9)#' <' J8 82' 8 '_' h E22' ' # 8<0'
D)#' ' U2F)#<J' <' D)J 8' ' '
8 < 82D)' 8' F D' <' F<J< # #' J#<#'
< D) # I_2F D)<' # ' A

_L' 92' 1' #'_' 1 # ' 822'H'
<F9 D) D)' #2' <')' .28 ' '<2D2#J 8<JE#
§' 9)<JD)#<' # D)< ' U F#2 <#' ' :J '
:2<!#)#' <FD)#J 8' ` ' D)#< 82 D)J' ' <#)'
D)#' _' < D)#' 2D)J D)' 8 J9#<' J)#<' <
¨' 9)' D)#< 82 D)J H' <F)#' J
' 6A2J 0J2#D)J' _' J' <#<F' ;2# #' J JD)# #8'
1_D)82<' #' :JH' #' J8D)J' 2' D)< E'
$J)J<' _' E' EJE#22' <<E

C' `R' _' `' '1 # ' q)#<
8<8E' _' F J#<' .8<D) E'_' E#<<<8' '
#E< E' 'J88 8' E<' 8<8E8 'E 'F#')E#2-8'
' <#E8+E8E<' 'J8<# F ' #228' #J 'J <

8X 8 <2' < - 8' ' 82-8J 2 ' 1#2# '
J +2' #+ JF2'!' 2F -0 #228'
9 2' #2' & #8?& # #J ' 8' ##' F '
2F 0 J0 #-' <<#EF 'J F- F ' 8X
J8< ' JJ28-#' # H + 8' ! # + #' ,_.Y'
F+J EF-' 1#2#F-' J +#' ' 82-8JH2 '
JJ#-F-' E 2 -8' ' 811##-' /#2#' '/ J +0'
G#' FX +' +E82 JH#' ' +# ' ## ' 8 '
E#I# #-8' # G8 8-'+82#J 8' JJ28-# 8'<8+' 8 +
9 2' 'E#8' F -' 8 'X###' F ' 8 H0'
2 +' ' EG 8 ' 8X' +G# 22# 8' ## ' 8 '
" J +' ' +# ' 8X' 2#8 828' G #'
8 ' & 2EF-' 1#2#F-' #G8+ #' ' F +8'
8X' J # 8' 8-' JJ#-#' -F '
8 1 82 E#F-' 1#2'&F G 2#' 8X' F-J+ E# -'
8G# #-' GF 8+ +' # -' + FF-'
8- ' ' R
9 2' 'E#8' + #-' 8 'XX####' F '
8 22 JHF-' ' F E ' $ 8 ' # 8+ # -'
8EHF-' '/2 H8+ ' 8X' JJ#E8 2#-'
J# 8' JJ#-#' ' E8+#J ' ' +'
; - # ' + F JH ###- ' ,_KY' <8+' +E82 0'
JHF ' ' +# ' 8 ' E8<+ E # ' JF-'
8 JH +# 8' <8+' 8G8 ' 8F E8 ' X8+0'
J# F-' EFJ F-' ' +E82 JH ' ' +# '&F 0'
2# #F ' 8 ' #E# ' E 88' I 8 # ' 82-8JH0'
2 F-' 1#2#F-' J +#' # ' 8UF-' E F '
JF ' -FJJ8-- +8' $ +#J##' 8 ' VJF2 ' 8-F
9 2' ' E#8' <+# #' U8UF ##' ,# 8 ' E#8'
8+JF+## Y' 8 ' I' F ' 821#8 -8-' 8 'G8 -'
" 8+FE #' 8 ' + +8F-' ' # +E 'I8F8+F '
E' <+ -E -' G8 E -' # ' #0/ 2G# ' E 88

BZ-C' %'?4' 87@ (' @(!' ,M '5! '7:"?4' '3(('4 ' ;(1@(5(' ! '((5'' 4 ' 48; '@ '=541' 5=8 (1' 4 78 "
@4 = '" . ' 7(2'8' O ':4 5';'' '5' 3(;' ':2'= 34;(' =V4584' 84 ('' 7 ' '5' ((2= =' 5=8 =' !' =V458'7 1 '
@@45?';4' (?' =1!' !
BZ C' # ' 9' .4 '(' =55(;'A' 45G78' 48 ' '(' (?37;' 1(545 ' ?'8 (' ?''=:58' ;' '' 4 ' 1 '2'(':58' (!
42(5((4' 4 ' ':78' (' (8 422=' ?4' (22R5 =:4 !' %=9' '@8(' # 7@ ' ?X5= d ' '!4!' @! ' 8' 4' ;=224 1
#! ,!

" ' !

:@ L4:' '5?55:' =@' ^T' ;= 5bU)':bU:' bU5:' :!'
F)U D)' _' # J' #J q<) E#<' J #) 8JH' # F 0
<' 1 JH' # <

9 2' !T!' '_' W ! !' ;#J c2 +F)20'
D) H')2 # ' JD)#I'8JH' DD U#DD# #' #F)< '
' ;2E82<' 8' :JH' :2<E' `c!' +F)8 H'
< D) '
9 2' !' !'+ '_' ' !" !' h '
' JD)# ' ' :JH' <' D) ' 1' D)< D) '
' JDDJ D)2' ' 8 D)' FD)' :J ' D,' 2##22' D)J D)2'?
H' :J ' ' 8<' 2 ' I2FD) <#' ' qy28 E' # '
D) 8< 9#' ' ' J ' e$-D-' #<'
F #8

9 ' _28 ' !' DD82<' !' _2#2' f ' ' '
I_8<D) D)J ' ' JD) D:' <' ^F2 ' ' D)JD)
2F # 8J ' D) ' ' JD)# ' DD< D)'
#22#0 D)02FD)' ?!

J !' ! !' 'w' ! !' 8220 D)2FD)
_' FD)# ' _' ;2DD 8' DD' <' <D)# 8
' 2 <8' ' DD^J ' :J ' H' 8 z E'
J< D) ' ;2F D) ' ' ' 7 JD) ' '_2#<J'
8' ' F2#<8' <' # <8< 8
D)#<<88<' <'_' D4^#<<'_' #a
J8D)J J' #22 #- -' J ' JE<<D)# ' F<JD) '
, F<J JD)Y' #' <F) #' <' F D) 'J ' <D)# '
FU 9 '_' .)'))' .?' '_' <<' J '
JDD< <D)J JD)J ' U ; #E0 <F 8 # 8' _' J U D)< '
D) ' h 8 #) ' ' <FDD#<JJ' <' D)#<J' <' _'
8 # 8 # ' ' <F)# ' <' J) +F' <' _' D)2'
8' F#<J #)' ' ' <D)#2 #' _' 2##' '
#28' J8<JD#' D) ' I FJDD ' J8+ ' 8' D)#2' $ '
<8< 8' J ' 2F# 8J ' 8# ' <' #<# '
2' ' J <# F)< ' UJ8J' # 8' <8<' 8<' < '
< ' D)' D)<JF<' J8<' _' < <#<' < ' J8J<#' #< # '
<' <8' <EJ' < ' 8<D)' < JD) ' D)+#' J 18 D#' <#

<8+I8 8+F ' E' 8++ # ' # 8 ' #2# #'
F #' <+ 82#F ' G8- F ' 8- ' J + ' 8 -' 8'
JJ#-#' -F ' ' # +E ' 8 ' 1#2#F-' 1#2##' / # 0'
++#' & FX' " 8 #-' " 8+ E #' 8 ' <2F+8-' 2##
9 2' ' ' ' 18+# ' 8 ' X I#' F ' / #2#F-' C '
& FJ#-' 2+ E# +F ' JJ#-F-' ' 82-8J 0'
2 ' 1#2# ' J +#' + # ' ! J +F '
-F2 ' I - ' ' & #-
9 2' 'E#8' ! #' 8 ' XXI##' F @' CA'
& 2EF-' 1#2#F-' H E 8#' ' +' 8X'
1F F+F-' J# -' JJ#-F-' ' H 2E ' 1#2# '
8EH#' ' +' E 2 -8' H 2EF-' JF '
E8+#J ' 1#2# ' 8EH#' ' +' J G #
#' - -' 2 JF V8' -F<8+I8 8 ' JF '
<2F+# F-' 2##-' -8JF
9 2' 8EHF-' ' 82-8JH2 ' 8X' 2#0' C '
JH#-8' + FF-' 8- ' 8+8 JF-' ' J2# E '
8X' 2#E# 8' -F 8+-F-' <FE' # 8+#JF '
1 E8F-' 8< -' E8#' H + F-'
#2E 2F8 -#-' SF#8I#
9 2' 'E#8' F -' 8 ' F ' XX ' #220' CB'
E 02F]' 8 ' F 0" +8# 8' 8 ' - 8+#F '
<#' ' , G# 8 -8Y' #2#F ' F+80'
+F ?' J F- ' ' J ##-' 0'
J +' ' 8 1 E ' " F 8+ +' #-8'
+ FF-' 8- ' & 8 EF-' 1#2' + HF+' 1#2##'
! 8 #-' / 8+G 22#' ' F +J ' 8X' +81 # -'
JF ' +#8 2#-' J# 8' J <##-' 8 '
+ +8#-' 8 ' " 28 G##-' I8 #' G8 # '
E 88' -8' << - 8+F ' F+J EF-' ' +#
8X' #W' 8 ' & #' 8 ' G8 #8 -8-'
T ' -- +#8 -8-' 8 ' G8--8+F ' <+ 82#F '
' G / #' ' JJ#-#' -F ' # #' &
8 EF-' ' F +J ' 8X' +#8 2#-' ' J# -'
8 ' 8 8 HF-' 1#2#F-' +# #' 8X' 1F F+F-'
8+ #-8' 8 ' G 22F-' 1#2#F-' ##+J E#'
' 1' / 2G# 8' 8 ' 2##' B ' J --#' 1F8+8'
#' -< + F ' 8- ' J <F ' 1#2##' c228JH#

'

A " ' !

!

h8D) ##2# D)' JD) 0JD)JD)< V' H# h#0# ' JF*)#1J0' JD)JD)# ' bU5' K=5':bb'5' ' ' 9J' Z!' ! !' bUK' "O ' ' ' ' !' ') : ' =;;' 14' bU'PbU bU' P= 27.bU5' <'= bU;bU'.4P' bU5'*2*';' bU;:' :2!' bU'P;'3' LbU15#' Z' ;= #U'<';'@5' @4'5' bU45' ;' ;' BU U"'5' :':' !!' ;bU;' G'=:bU4' bU;' 1'2;'2bU'5 !' 2L' ?12bU'K[K' ;4L' K' 1' 27 bU5' Z' bU;:' 24;:'

G=';4P' 4L:bU;' Z' bU1:W7;:' bUL' bU5:' C'= bU:D)K k' 541' @= :bU' 42bU'P'1' ;4''4:' bU:@ ' 'K' bU;:' @'@' P':' Z'Bb'@K'?''@' 54=22bU' 14' bU;3' @4@' :':' s':4' @1' @=;3=':' '5' ;4:1?' L1!

C.' 92' !' ! !' ' w'D)8 ' <' <#' _' ' <#' <# ' # ' ' & !' F' ' 8 ' < 0 J' h ' Y' <FD4I#<JJ' <' H' <#F ' <8< 8' !' ' !' !' <8 2 # ' +c# <' D)2D)#< <' #<< 82 ' H' <F# 'J <' 8 D) ' E' < 28' 8

2 ?1Y' 92' ' !' !' "!' F<' D2 F<' #< <<F' ' < 28D) ' <F#J' 8 #< < ' _' 9< ')#' ' ' D)' :# H8' D# 8 2#' J ' 8< #' <8 ' 2#F < ' ' _' 82D) D)' 2 ' <D)' ' D) D)# <8' _' ' # J28D)JJ' _' <F#)#<<' D)<<' D)' <D) <D)#' |8 ' #)#<<' ' <) ' <' F<' #<' <' ' ' <8# ' ! !' `!' #< ' D <D)' 2' >>' ' <2D)#JF<' J <' J<#J D)# ' 8JDD' (8JD)# ' #D)<' E#J <# #' D)

8G#-' +81 # 8' # 8+#JF ' $8- 228 * ' G ' ' #- ' 8' SF ' + F#' -F ' J8 0' 8 #' # 8+ +F ' # 88<# ' ' J 2 +8' 8 ' # - 2# ' -#JJ# 8 ' <8+' SF F +' 8G# 8-' # 8+ # 8' F- ' <8- #28 # 8' #- #F-' 1F# ' G8 -' SF 8E ' SF 8' I8 # ' # ' -F2 -' F E#' +8 28-' #E' 8- ' +8-' H + 8- ' SF +F ' SF#-SF8' J - ' 8' #228' -F<+ ' EF ' #22c ' F #' +8 F2# ' 8 GF-#F-' F # + ' 1#2#F-' E G#' "#2E-8' FG ' #' J I8 #+8' - 28 ' #' ' J 8' &8#' + ' 8 ' I#E# F-' -' #<-#' F F ' <H + 8 ' SF8 ' - F8+F ' F #' #-' 2 --#F- ' F ' I#G#2 +8 ' <+ ' 8#- ' #'8 ' H + 8 ' SF#' I - I# ' G8 # ' ' << +F8+F ' 1#2# ' "#2E 8' FG #^' 8 ' F #JF SF8' #+8 ' 8 +F ' 18 +#-' 8 ' J 2 +' # #'^ 8 ' # #' 8 +F ' 2F8- ' H 8 ' 8 #+ ' F F-' SF#-SF8' 8 +F ' G2 E#F ' #G # F ' # ' GF F+8' -F ' 8 ' SF JF SF8' #+8 ' 8XJ# ' # #' I < +8-' I8 8 - -' -' 1F# ' J F- ' <8- #28 # 8' #- #F-

9 2' ' E#8' <+# #' U8UF ##' ,#'8 ' E#8' 8+hF+##Y' X#' F ' 8 ' 1F# ' #-' #228-# F-' XXXI' F-' ' ' H+#- ' /#2#F-' & 0' 2E#' ' F +J ' 8X' ' +#F # +F ' +810' +#8 -#F ' JJ#- -' 8- ' <8+' E 2F ' +# F0' 2 # ' G ' <+-8' 8G+# FE# 8' J ++#<F# ' +0' E82 JHF ' ' +# ' # ' F ' 8 E8+8' J G80' +8 F+' J 8- +#8

9 2' ' 18+# ' I ' F ' XI ' !8JF E -' F-' #--8X #2#-' 82#-- ' ' + J ' E J -' -8 # +' # 8 # - ' 8 ' -F<+8 F!' - <#8 -' # 8+ # 8' ' SF#' -J+#<-# ' #<-8' 8 ' J < -F# ' # + - ' 8 ' <8+ ' F2 ' +8<28 ' -J#8 # ' 8 ' # G8 # ' ## ' # ' G+ # ' &8# ' +E82 JHF-' ' +# ' 8X' U +#-' < + *-' # 8+ # ^' + FF-' 8- ' # 8 ' 8G #' -F#' A E'1# 8 'I# 88'8 '< - '< 8 # 8 #

" ' !

'h 8J' ' ' 8' D $A' D 1< D)' m#D)'
') '.' ;4 0J ' F# #
' ,_D! 820JHDD m D) ' H' D)J D) D!?.' _'
;2D)82 FD)# ') ?m<8# J8DD^22 _' D)2F' ' ##yD)JH'
' ' # 9)8J' ' D)JHD)s DD#.' U4' 8YXD) '
_' ' _' ' F#U 8 D)# ' JD)# ' ' F J8U'
2D) DD ' _v9)1# ' (;' á I;2982 ' $(
:J D)# 7' '2 JH' F#.H8' 2FD)JD)' ' D)# 820'
2D) ' <']#< 9)22' J' A' ' D)#22#

9 ' ' " ! !' i i i '& !' U; D)82 ' $' :J '
<' J8 <D)JH' D)< D) ' +<8' J D* F)J+'
*)+ ' EJ2 ' <D) ' #J ' m2FD)# <#' ~-'
?1D)# 8' F# H8' # ' _28 D)' #+# DD' D)# ' '
J ' _' *28 ' $(? 2#<J' 2 2' H ' <FD)<J' <
' J ' J <J #<' Df) #' D)8 ' ' <FD)#<J' _'
_ F#<8 D*J' ' 8 2 #<' _' $(')
28# 8' 'qm<8< D)#2 _' ' .a; D)' '4 '24#<# 8 '
_' E# ' I ' m FE <#' ' :J E#<' E<' 28#<'
JFJE ' EJ ' <EJ E' 8 E#<' #J ' E# #F' _'
<#<F' F# HE ' J <' F*-' <' E# # '
;2F#<J JEJ ' ' <#E# ' " ' !

92' !' + '_' ' ! !' I; E# '
<Z' E JE# ' E' <FE <#' ' :J ' < <

H E8F-' 1#2#F-' 8UF-' ## '8 E8 ' 8 -8 ' ,__Y'
;#J +# ' +# J 8+#-#-' < + ' <8+' & -' 8 '
G8 #8 -8-' J + ' 82-8JH2 F ' 0'
J +#' 1#2#F ' F #' J8J#E8+8' 82J# + F-'
' -8 ' 8 ' 82 F EF-' 8X' /8+J 2#Z '
8 ' 2## ' ;F2<#-' 2 F-' #'8 ' 8 8 HF-' '
H #G ' 8X' 81#!-8' 8 ' 1#2#F-' 8UF-' 8 '
' F+8E #G' &FX' "8 #-' 2 ' JJ#-#'
E 2 -8' ' 82-8JH2 ' 1#2# ' J +# '
<FE' JF ' ' # G !' ' #G820'
2 ' 8X' +G# 22#-8' JJ#- -' ' 22[-
9 2' ' '1 ' F 'XXX ,_CY' 82-8JH0' Z
2 F-1#2 J +# ' 8>' 8 +# 8 0 JJ#-F-'
<8+' E 2F ' $+-82#F ' J2 8' # ' + # '
8+' E8+#J[' ' +' J G # F '
<8 F2 +F ' 12 I#F ' 1#2#F ' 8EH#' ' +'
- 8' JF 8' 8 ' 8EHF ' 1#2#F ' +
HF+' J +#-' ' F +J ' 8G8 ' 0'
J# 8 ' 8 ' JJ#-#' -F ' # #' 8E F-' ' F +J '
8 ' F+8E JF-' ' 2 -' 8 ' !# +#JF-' 1#2#F-'
-28 ##' '/8+G 2' 8 ' 1#2#F-' " E1+8E#'
'!J+# E# ' 8 ' 2## ' /#2#F-' E8+#J#' '
+' 1F# ' #-' SF#' G8--# ' <+ 82#F ' F #0'
8 #' '# 8+' G8 #8 -8-' 8 ' 0'
#8 -8-' # ' SF ' I#J +# ' < + ' 8-' E8'
G8 #8 -# F-' F+J8+ JHF-' ' +# '
I#J +' 1F#
9 2' 'E#8' ! #' 8 '#I' F ' ;#J
+# ' -F2 8' $ #-' ,_LY' < + ' <8+' E8+#0

BZZC' %'?4' 67(8' 4' = ?42:(;3=' I '(5'?'; ('855 ' (?' (55!' , ' 87@ (' @!,Z ' 5!' ' (55!' i=' 5!' - ' (55!'
Z ' 4 ' Z !' :'' ' #45&;= (?'84' (?' 45(571 ' B5=5' #45;= (?'84' (?' # ' <2'' 145' 7 ' '5' E(84" 5 '6!'
0 ':!';!' ' @!', C' (55=' 84 ('8' ZZ ' 4 5" , , ' @ '?'4' ?(8' 72'' ' <4 '(''' ' '' ' '5' =?';4' !' 2(34 4(5=!' %' ('8 "
?(=8' 4 8';72=8' 0 ':4 5';=8' =4 84';=84 " 0 ':4 5';" (??7;55 ' 67" 4(5' (55=' ' =:''884';=5<' 1(7 ' (55=' 4 5"
, ' '!4!' 4 5=' 5714 (=' (' @=28=' '5' 49'2'71' =55;3(?=' (55=' !' 7;;488' ' 4" ?2'78' 7 ;4 (;378' (55'8' - '
6=':78' ' + @M ' * ' 4 ' 7 ;34 (;78' '8 ' 67'8674' 84' .4 41' =<'78' 0 ':4 5'(4' 4<4 4:('7 '5(('
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O':4 5= 71 ;7G78 141'54 75 2?3421 78 '5 @'8 2((?] 4 75 '71 '5 4 =5'<(?(5(8 5714 = 4
! =271:(578 '5 @p8 =2((?] (22=8 7:" ` # L;271 48@5' 7 (2':" '5?';('!B C)w =;4?45 4
(7 41 41@= 4 ;71 O':4 5= 71 14 3=?78 (4 = (8;3(4 4 (= '78 <4 4 = :'8 14 3=?=
?'8; 4@(4 (2'67':78 '871 48 =5(;3'8 O':4 5'8 4 @ A84 '1 (7; = " @4 '8 ?4 + # $ $
%'; = '" L;271 (?3':4 4 (55= 71 - , B C 67' 1X?'78 '5 4 ('5=8 4 249(5? '5=8 '5;4?458
?'8;= ?'(1 '5 4 7 =8674 ?4 5=5 4 = ?4 9] (8;3(2" 49 '59' ! (1 " (5578 @ '178
L;2" '8 '78 (: '@8= %'; = '= ?48' 5(= 846745 ':78 5= '8ww&K ! / ; 1 # !
K 7 4 / !%# M 9 ' Q 67A 5= A (5571 '5?';(5 A A ;=1! , 75?4 8467' 7
7 '17'7 '8 '78 L;2" (5571 <7'884 3 '8 " --M 67= #(245?A (57('A (: 4=?41 %'; = '= 5= (5 7
\1 7 =4 4 (8;3($!%# 67" =?49 =?24'(578 5'8<(2458'71 72 '171 4<4 '8 '78
L;2" (5571 (? (5571 -- G79 (@ '4 (5= (71 #! 4 = 84 '48 '8 (?'8 ($ (55'8 67'567X (:
A (;=1 1754! 3A; ?'<<4 45 '(5=5 7:'674 5= (5?(48 A;72'8 4 ' ('67(5?= 45'1 ?'8 (5
(55" (: A (;= 5 (55'8 8 4 4 (A;72= ''' (? 9 ''! 7 87@ (?'9'178 9' !

% ! (?41 ?'<<4 45 '((55= 71 - (#= (7145 = ;=22' ' 7 48@4; w A;72" !) =?49 45'<5
=?24'(578 =:' 71 ! (';'" 4<4 G79 (84 '41 @ A?'; (1 5= (71 #! (? (55! 67(('8
;4 71 8' =:''884 471 (55= A A ;=1 M !

! 4 =?';':78 5'8<(2458':78 7:'674 =:84 (5?7'5 48 4= 71 ('=548 3 =5=2= ';(8 (? A 4
;=1 175'8 84 '41 <(;'24 (;;=1 1=?(" @=884 =@4 2 =5'458'71 67" A (1 '8<(1 55= (5 71 (55=
@ A;4?75 '?674 ?4 ':78 =?';':78 5= (5?71 48 ?4 7:2'5'4584 67(1 ?4 =?'4'(5= 4
O(24'(5=!

! s7A ?'; (875 3(; 4578 48@';'75 @ A;'@54 =?';41 " , -! =?49 45'1
7:2'7'458'8 (' = ?=; = 4;45 '78 49((78 (? A (1 ;=1 17541 @ =@'78 (;;4?' '?4=674 4 67'(
'5 @'7 ':78 (=?'4'(5= ?'8; 4@((674 '5] (22'(49 =?';':78] (22';(5'8 8'172 ;=22('8 ?48; '@ 78
<7' 471 '5 4 71 8674 (? (5571 - @7:2';" G7 '8 <(;4 4 ?4; 4 '' ?4'5?4 (7 41 4((5 71
49;4 @4 4 49 846745 ':78 (55'8 78674 (? (5571 R S <<< 4 67A = (1 O':41'(1 48@';' 5 4
=?';41 =?24'(571 '5 @'7 ':78 2=;'8 494871 ''278 (4 ;45845?A 875 !

B C %'?4 =24 =1! @(4 '' @! 999'''! B,C =24 =1! ':'?!
B C =24 =1! ':'?!
B C =24 =1! @(4 ''! @! ;999 55(248 2 !G (! - 5= ! 4 @78 ?4 ' (:'2':78 ! ; '@ = J 4?' 71 '5
@@45?';4 (? =1! @4 71 ! 7 78 '5'!) 4?((' =5(;2'=8O':; 5?8 *4 8' (5; ' (4 4 8;'45 '(;424: 48
41@= 4 67= :'8 = '((8; ':4:((55= - ?5:'=8 (55=1 1 ' ;72=8 846745 48 ?'41 (8;3(241)
$ $;424: (884! 67" '5 %'; = '" 4 '=?= (55=1 1 - , (8;3(=;;7 4:(:'8 4 4 34:?=1(?(
(: 249(5? '5'8 ?' 4 8(4 =5(;3=8 O':41=8 84; ?" '" %'; = '" @58 (8;:(24 '5 87 3(:5'884 @(4 49
@ 4<(= =@4 4 ?4 + # $ $ 8; '@ = 7 (2':" '5?';(" (55= ! - !

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47

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. E ˢ =!ˢ - ˢ ˢ ˢ ˢ ˢ . !

Fˢ JJJˢ ˢ 4 ˢ ; ' ˢ ˢ # # # ˢ F E#ˢ ˢ & > > > ˢ UFX ˢ XXˢ 8+<+8 J- ˢ
!8JF EF ˢ I8+ ˢ 8 ˢ I8+# 8 ˢ # I JJJJˢ 9 ˢ # ˢ ˢ ˢ #Gˢ
F ˢ # 8+ # 8ˢ 8 F# ˢ ,+Y
92ˢ ˢ # J + # 8ˢ & # ˢ JJJJXXX
ˢ ˢ E "ˢ ˢ 9 ˢ $ 22 E#F-ˢ Eˢ !J -ˢ ˢ 828- # ˢ F+ #-ˢ 8ˢ <#-J < ˢ
+E# F- ˢ <+# F-ˢ # # F+ˢ # ˢ # 8+ # ˢ F ˢ >< ˢ J+8E8+8ˢ < F#--8 ˢ ˢ
8 H -#ˢ , H8 E -##Yˢ 8G#-ˢ F E#ˢ I### @ 828- # F-ˢ $ < ˢ SF#8I# ˢ
FGF- # F- ˢ - <#8 -ˢ <#-J <F- ˢ ## ˢ ˢ XXI#ˢ 8 #-ˢ 8UF- @ ˢ # J +
8ˢ & # ˢ +#ˢ ˢ HF ˢ ><# ˢ F-SF8ˢ HF Jˢ F ˢ JJJJXXX##ˢ #ˢ -F @ˢ
ˢ + 8ˢ / ˢ 8+ #- ˢ IF2G ˢ FJF22# mˢ JJJJXXX#### ˢ ˢ + 8ˢ / =ˢ
, A2ˢ ˢ ˢ , 8G#-ˢ 2 # 8Yˢ JJJJX### ˢ ,AY
8 8ˢ U+Ufˢ jˢ 92 ˢ $ +#J#F-ˢ <- ˢ # 8+ # ˢ 8 8 ˢ SF8ˢ !J -ˢ < #~ +Tˢ
J2# ˢ ˢ ˢ +8G #ˢ 8 H -#ˢ # +c- ˢ _ˢ <+# ˢ ˢ <#-J < F-ˢ >#- # ˢ
X2 ˢ - ˢ #ˢ ,X2#cˢ E#Yˢ <# ˢ # 8ˢ JJ28-# 8 ˢ # ˢ SF + ˢ ˢ +8G #ˢ # ˢ ˢ
1# #+ @ $ 22 E#F-ˢ H ˢ , I8+ Yˢ H#Jˢ F ˢ ˢ -# ˢ > 22 ˢ ˢ +8G #ˢ
8 H -##ˢ # +#- ˢ $ +#J#F-ˢ I8+ ˢ > 2 ˢ ˢ , I82Yˢ F ˢ 2##E#JF ˢ > 2 ; ˢ ˢ
8UF-E8 ˢ I8 # ˢ Eˢ !J -ˢ $ +#J#F- ˢ SF ˢ $ 22 E#F-ˢ Eˢ ˢ ,+8E## Yˢ
8Jˢ <8+I8 # ˢ -8Eˢ # ˢ +# # ˢ SF#8I# ˢ # ˢ >< 0@92ˢ ˢ , F +##Yˢ $ +#
J#F-ˢ Eˢ # 8+ # ˢ # # F+ ˢ 8 H -# ˢ # +8ˢ +J E##ˢ 1#2# ˢ +8G 8ˢ #

B Cˢ 714 "ˢ 4145;2(5?"ˢ 8'1 ˢ G79 (ˢ (24 = 545(ˢ @!ˢ 9' ˢ t ;!&) 55"ˢ ' =14 '8ˢ] = 3';'8ˢ (@@=8' ' ˢ X?'S
=58ˢ @4 ';72=ˢ ?48' 5("ˢ 875 ˢ G79 (ˢ X 72(8ˢ =9@=8' (8ˢ =24 =1!ˢ @! *) 99 !
B,Cˢ 4ˢ ˢ A (4ˢ 5 ˢ =24 =1!ˢ @!ˢ B ˢ B 5 ˢ 4 ˢ B5 ˢ <BB B ˢ B 5 ˢ !

A ! ' ! / ! !

SF ' ' G82F-' JF# 8 ' ; #J + ' ' 2 J ' # ' SF ' $ +#J## J+FX' < -#2 '
,8- Y' $ +#J#F ' I J I# ' 8 ' #2# ' 8 < +8' # ' ' ' # 8+'
' +8G I# ' #-' XXX I ### ' : F + ' I8+ ' ' +8G #' 8UF-' $ +#J#F-' <8+0'
I8 # ' E' ! J -' $+81 1F-' # 8 ' # ' XX I ###' 8X' 8+ ' 8X' JUF# SF8' 8G## '
8 < +8' SF#' # 8+ # ' # ' SF# SFT' E#I#-8+F ' < + 8-' #' 8' / , ' !'
/ ' w' % # ' - ') ' ' ' &8E E#F-' 1#2#F-' 8UF- m' _'
A ' ' & # !' , Y
U 221' 8 8' UU% # 4' 92' <+# ' 18+# ' , I8+-# ' ! J +F ' # ' 1#E8 ' > <# '
Q ' J8 8' U+U' 4' $+# ' <+8E ' ! X +F ' ' # 8+ #
' Uf' 4' 92' ### ' 18+' + -#F-' _' #+#22F-' # ' E J +# ' 12 +F8+F '
@ #X' G
J ' UU' 1' 92' +-' 8 '] JJ +8- 22#' JF2 #m' 8G#-
Q 4' ' UnU' , f h' 92' #X ' @ # #F ' #+JF##' G #' , AY' 92' XX '
J ' 124 92' #' 1' ! ' # F-' ! 8JF E# F- m' _' FX#2# +#F-' FX#2#F- m' _' -8+0'
F-' # F F+' # ' FX#2#F ' $ +#J## ' 8J' 8 ' \ F8+FF ' < - 2 F ' #-#'
$ +#J#F-' - 2F-
J ' n' .' 92' ## ' 1' X## ' ' : F#8-' FGF- # #' - <#8 #-' +-' ' '
' 2#' 1#22#' # 22# m _' X2###' <#-
Q ' #1 ' n' 4' 92' $+ # ' ! J#' $ +#J##' # ' 1#E8' 2#J
' 4' ' n' ' 2 92' # I ' ' ! 822 ' J+# # ' << +F#
Q 4' 4 / n' Z' 92' $ +#J#F-' # ' > <#' E J +# 12 +F#
J ' 2' Z' 92' J2#<-#-' ! 2#-' # ' ' + ' , Y
2 ' 8 8' ' 92' 8 H -#F-' SF#' +8G I# ' #' XX I # ' ' ' 7 G
' ! ! ' 92
2 ' 8 ' F#4' 92' / ' # ' 7 ' !' ' A ' _' # A ' $+ -2#F '
<#' / 8 # ' # 8+' #8 -8-' 8 ' G8 #8 -8- m' # ' SF ' J8J#E# ' ' ' / G'
' ' / , ' SF#' U8J# ' G8 F-'
Q !' J ' #' 4' 92' : F#8-' ! 8JFHE# #' ! J# ' 92' 92
8 8' ' 4' 92' 2J E 8-' ! 8 EF-' H 2J8E 8 -#-' ! EF-m' J G+80'
G F+ @ 92 @

B C' %'?4' 67A' ?4' 67'5674' @(' (' ?' '8'=5w' ?'; (' 875 ' =24 = 1 !' @!' 9'' ' 9''' ' 9' ' 9 !' 4', ' . 4 'S
: 78' 235'; '8' '?4' @!' 9 ' 92 ' 92 '' ' 92 ''' ' ' : '?!
B, C' %'?4' 67A' ?4' 5'8<(2458'7 1' 3 =5=2= '(' ?'; (' 875 ' =24 = 1 !' @!' ; 9!
B C' ; 2'@8'8' =2'8' '5; '?' ' (55=' !' - ' ?'4' , ' 72'' K =' r' ' ' # ' ' B' ! # ' ` 6 '
' !' ' @! 2!

!ˢ ! / ! ! ˢ

B 4ˢ 8 8ˢ ˢ .ˢ 2ˢ +J# #ˢ +-ˢ SF#ˢ +8G I#ˢ <8+ +ˢ #-ˢ I## @x 8ˢ +8G I#ˢ _ˢ J +<F-ˢ H #-ˢ +8<8+ˢ F+ ˢ 8- ˢ , Y

8 8ˢ vˢ H4 92ˢ XX I#ˢ ˢ $ -JH ˢ # ˢ I###ˢ 92ˢ #2ˢ ,AY

ˢ ˢ ©#1ˢ 92ˢ 7 , ˢ #!ˢ ; - # ˢ G8 #w Uˢ

#Jˢ 2##ˢ E#JF ˢ #I# 8 ˢ ! ˢ J 8ˢ +#G# 8

ˢ (ˢ H# ˢ 92ˢ 7 ˢ % ˢ ˢ , # ˢ ˢ !ˢ ### ˢ 8 +8F-# ˢ H # ˢ ˢ G +#<ˢ 1#2# ˢ # 22# m@R

ˢ ˢ ˢ H [4ˢ 92ˢ ; #J + F-ˢ -J+#<-# ˢ J#J2F ˢ $ -JH

y1ˢ ˢ 2ˢ <4 92ˢ 8 ˢ ˢ ˢ / , !ˢ +-ˢ 8#ˢ 1#2##ˢ H E# mˢ

#<ˢ 92) 82 ˢ # ˢ ˢ ˢ # ˢ # ˢ $+w2yF ˢ ; E#ˢ SF8+JFF ˢ $ (ˢ J + ˢ G +#F ˢ G8- F ˢ ˢ G8 #8 -# F- ˢ

1ˢ & ˢ ˢ 92ˢ FX#2# -ˢ E + #I# @0ˢ

^ ˢ ; Uˢ Hˢ 92ˢ : F#8-ˢ $ < 8ˢ 8 #-ˢ _ˢ +E# # ˢ #2 +##ˢ <#-J ˢ 9 ˢ

4ˢ ˢ Uˢ# 4ˢ 92ˢ 1 +-ˢ # ˢ ˢ ˢ ˢ 5 #ˢ , ˢ !ˢ ˢ ˢ !ˢ !ˢ ˢ _ˢ , ˢ ˢ " !ˢ +-ˢ G +##ˢ 1#2##ˢ # 22#ˢ <FEˢ " + 22 JH0E 4ˢ #2ˢ # 8+ˢ EF -ˢ J 228- ˢ #ˢ 8ˢ # 8+ # 8ˢ 2 # # ˢ E#J - m

#1ˢ ˢ t ˢ 1ˢ 92ˢ ˢ ' ˢ +TG

^ # ˢ ˢ W ˢ #ˢ 92ˢ ˢ , --8+ # F-Yˢ E + #I#

ˢ (ˢ #y1ˢ / ˢ ˢ ˢ $+w2#F ˢ #-ˢ + ˢ +E0J + mˢ 92ˢ 4 !ˢ 92ˢ : F#8-ˢ 8 # ˢ <#-ˢ # ˢ ˢ +# F+)@ +-ˢ 8 #-ˢ # +#-ˢ SF#ˢ +8G I# ˢ X I#ˢ #-ˢ _ˢ ˢ , 8 Yˢ <8+

ˢ & .ˢ 92ˢ 7 ˢ % ˢ ˢ ˢ ' !ˢ # # ˢ 8 +8 -# ˢ H # ˢ ˢ 2#22 ˢ 2 m

1ˢ ? Yfˢ ˢ 92ˢ / ˢ) G ˢ ˢ ˢ ' !ˢ $+w2#F ˢ &F# w0ˢ JH#+ˢ J + ˢ 2#22F ˢ 2 mˢ & ˢ I#J +ˢ 1F#

f ˢ ˢ & ˢ # ˢ 92ˢ ! 8JF E ˢ <+8E ˢ ! X +F ˢ ˢ # 8+ # ˢ 92ˢ 92ˢ 4

ˢ ˢ 4ˢ 92ˢ ' ˢ / ˢ ˢ / ˢ ˢ ˢ +# F+ˢ U #ˢ ˢ & ˢ ˢ 9 ˢ : F#8-ˢ ; ˢ ˢ ˢ , , !ˢ !ˢ 8+ ##ˢ #-ˢ +E JH #? m

#ˢ ˢ & ˢ ; ˢ 92ˢ 822F ˢ Q ˢ ˢ ˢ ! ˢ # , ˢ ˢ / ˢ xfˢ ˢ 7

, Yˢ <F ˢ H #-ˢ < ˢ # I8 F ˢ W- ˢ 8--8ˢ ˢ ˢ B. ˢ H1 2ˢ 28X E+ˢ # ˢ ! J+#< ˢ ~ B ˢ < ˢ A. . ˢ +J# F-ˢ ## ˢ ˢ B. _ ˢ ˢ #ˢ -FJJ8--# ˢ 8 ˢ H+ X DAYˢ 8J 8^ˢ 8- 8ˢ $+ 8+# ˢ 28X E+# 8ˢ <FEˢ $8 I ˢ E8ˢ & J + ˢ 8 < ˢ A ˢ J ˢ KB

W

B ˢ !ˢ ! / ! !

ˢ ˢ / , ˢ ˢ / ˢ ˢ) A A ˢ $+ #2#F 2 J2# E J8 + ˢ
G8 #8 -8-ˢ G8- F ˢ ˢ +# H ˢ I82 ˢ / # JH+ ˢ G #2 ˢ 1# ˢ 82 # ˢ 1c2##
+F# ##ˢ J28& 2 + E##-

8 8 < ˢ F#Z 92ˢ 822F ˢ 5 A ˢ ' A ˢ ˢ I#J +ˢ # ˢ SF ˢ J8J#E# ˢ
7 ˢ # ˢ #ˢ +8X G8 #a m _ ˢ / A ˢ I#J + F ˢ 2## E#JF 0) " W
/ ˢ # #! # !$b! #ˢ 18J# ˢ ; F2 F-ˢ 28 H 28 +# H #
8 -82 JH# 8G#-ˢ G8 #-8ˢ SF# # 8+18J#ˢ 8 E#F m
) ˢ 8 8 ˢ 92ˢ #I# -ˢ +8 E # #2 G# G #ˢ j2" ; ˢ PFE !ˢ !
#ˢ 8ˢ /# 2 G 8ˢ #ˢ 8ˢ #22## m

ˢ 28 P ˢ 92ˢ +-ˢ / G / #! 92ˢ 9 ,2Y

8 8 2# 8ˢ ### ˢ : F#8-ˢ / A ˢ) ˢ ,AY +-ˢ ! 8# #-ˢ 8 #-Y
SF# +8G I# ˢ ˢ XI##ˢ - -#F-ˢ #F<8+

8 8 ˢ 92ˢ : F#8-ˢ ˢ / ˢ <#- @ / ˢ / ˢ F ˢ J8J ˢ
* # ˢ ! ˢ ˢ A ˢ ˢ ˢ ˢ , ! +-ˢ J 2#2# <c-
J <# @$+ 82#F ˢ 9#22 - E8 -8 F # J8J#E#ˢ 8 GF-ˢ ##2#F-ˢ E1+ JH#ˢ 8ˢ HO
8 ˢ ' JH 8UF-ˢ FX + m

8 8 Z 92ˢ 822F ˢ + = / ` ˢ # ˢ SF ˢ J8J#E8+F ˢ 7 ˢ ˢ
7 ˢ ! # ˢ +8X G8 #-8m _ˢ A ˢ ˢ / 2ˢ I#J + 1F# ˢ 9ˢ 9 ˢ
^ 2 ˢ 8 8 F#4ˢ 92ˢ : F#8-ˢ $ +#J##`W? ,# Y XI# 92ˢ <+##ˢ ˢ JJJJXXX##
ˢ < --# 8 &F# @ : F#8-ˢ ˢ / A A ˢ !

8 8 UUU# U ˢ n! e ˢ / A ˢ ˢ !
) ˢ 8 8 U84 92ˢ : F#8-ˢ ; +& ˢ ˢ * !
ˢ ˢ 8 ˢ ˢ 92ˢ : F#8-ˢ ˢ &, !
! ##1 ˢ 8 ˢ # ˢ 92ˢ 822F ˢ & A A ! ˢ ' ˢ ˢ I#J + A#ˢ ! ˢ 92
ˢ ˢ # ˢ 92ˢ 822F ˢ + # ˢ # ˢ SF ˢ J8J#E#ˢ % # ˢ 4 ˢ `% # G4 ˢ
#ˢ 8ˢ # GF 0 8+#-ˢ +8X J# U -#J J G?F # #- m ' ˢ ˢ I#J + 1Fg

B C 4 (55= =: ' 78 '1 2'(5H 37G78ˢ '?4 55(2! 3! (55! ˢ 4 ˢ =24 =1! @! 999'''!
B, C \(N'(wG 37G78 141'5'ˢ '578 '5 '('@('(; ' ((((: 884 '= ˢ 4?' ((=2 (5= '(?! @!
ˢ ; ! ˢ 7 : " 4G78 454(2= '(493' : 4 7 ˢ 4=?4'5 '@8= 1 =?=*67= X9 (ˢ '5 b (w; "%= '=] 4\\4(= N!
=?! =?2! (7?! ! M- ˢ 4 ˢ ; ˢ ˢ '3 '(?4 @! , ˢ 454 ('=54 9 (: F ˢ - ˢ = (=5'(8!
G78 =: ' 71ˢ 4<4 75 ˢ 2 =5'45848 (? ! ?41ˢ 48ˢ 674'T =: 8'?41ˢ . 4 " (= ('= (?'?4 4 =5&
5(; 3 45848ˢ 67'674 ('((5= 2' : 4 (78ˢ (ˢ 4 7?' 78ˢ] (22'(8 (?'' ˢ 4 ˢ 3(: ' 71ˢ =5(8 '; 7 (
ˢ ('5" '5?7'ˢ 7 =5'8 (55= - ! %' ('(5(5'! *

! ' ! / ! !

' NŒ 92' e h ') # 2' / !G=GJ ' : F#8-' / A2 A ' <-4
J 2<#' 7 '
+ .' ' '*#[1' 822F ' !' 92
2 ' J J' %/' .' 92' 822F# ' 7 ' ' " !!@ 7 # ' I#J +
2 ' Y1' 92' : F#8-' J#JJ # ; J## ` ? ffD`\`+8' ' 6 # #' <#-J <#' 8+\F-#- m'
!&9' 92' 2'I# -' # + W`1#22#' + #1#J#-
)# ' !& .' 92' : F#8-') , #' <-' !
A& .' 92' : F#8-' ' G+ !' +J#' !2 F8 -#-' <# m
L22' A& ((Z 92' 822F ') ' # ' 7 # !' $+ 82#F ' &+ J28+G' J +#+0'
+ ' / 2G# - m' 7 ' ' 7 ' " ' !' &8#FE8' -F' # F-' 8-
#' 8' <2 # #8-' #E##8' ' G8 #8 -# F-' I - ' 8- m' 924
) 4' A& ;4' 92' #I# -' / # ' 8 !!
) ' A& # 1' 92' : F#8-' ' ' ' _' SF#8-' (& +8+ e9
+ .' A& .' 92' +-' - -##' SF#' +8G I# ' U#-' XX I ' F- # [-' <8 ' 92'
' .' C .' 92' #I# - #**W* Z 8' ' ! !' ' & + # # ' 8 ' ' 8 #G!'
92' 92
) 4' 7' .' 92' : F#8-' ! ' U#G#E 8' 92' 9
2' & 92' +-' F- # #' SF#' +8G I# ' #-' I#2# ' ' F- # # F-' # <8+
&' [i ' 92' : F#8-' B#` 8' & ' & , !' 2 8#' #-' 28J8 -#-'
- 8+##' +# m' 0'
C ' .!' 92' I8 2# ' J +< +#-' E F ' JH# ' _' EFJ # ' 8UF-' 28X1'
E+#
A& ' 92' 822F #' ' + ' ' ' # ' _' / '
/ ' ' ' 7 !' $+#82#F ' I E#' 28 #F+F ' -8F' -<#+# FF ' G8- F ' '
F+J8+ J ' 1#2# ' +J#' J + ' G8 #8 -8-^ 8 ' <+ c2#F ' # 8JH8 -J' G8-' ['
' 1#2# ' +J# m' #I# -' 8H # ')8#J 0'#8 #W8 '
W ' A&U ' 92' 822F ' 92' 92
8 .' C!KK : .!' J !' 8 ' Q ' % ' ;2 f# f2, !' $+-82#F ' F 0'
JH+ ' G8- F ' J + ' +8G8 ' F H 2#F ' J 2I 0 +I F m
8 .' C E!' 92' / ' 7 , ' ' ' ' ' / ' !' $+#J2#F ' ^
/#+ + JH' J + ' ' 8# -' G8- F ' ' + +8 ' # ' G8 # m' SF#' I#X# ' '
JXX ' 92' ' '
' A&UU#' #' 92' $8+E# # ' < =#-' # #) ' # 2F 8 m
' A& ' F ' 92' #I# -' " +8G +##
' A& ' .' 92' / ' / !' $+#82#F ' 2 JH +8 -8 m'

! ' ! ! !

^ ' !& U+U+' 9 2' / ' / ' $+w2#F ' 2F w2 JHm' F #' J8J#Ey' ' '
' / , !
7' !& U;&U ' 9 2' +-' / # ' !') ! # ' +TG#-
!& UnU 1' 9 2' / ' % ' ' # ' $+w2#F #' + F ' G8- F ' '
G8 #8 -# ##- m' # ' SF ' J8J#E#' ' ' ' ' 0
!& U ' # ' 9 2' / ' + , ' , @ !' $+w2#F ' #-' 2# #w m
+ ' &' nKK | ' 9 2' + 2# -' <+# ' SFw' E#J# [+' ' # ' SF ' ' , ' G'
! ' JF-' J2 FEF-m' E + ##I E
! ' !& ' 9 2' / ' / , ' u ' $+w2#F ' 2 JH +#w' ' m
!& ' # ' 9 2' / ' + # ' _' / ' % ' $+w2#F ' ! 2#GF # F ' 8 '
<+w2#F ' + F m
!& ' [1' 9 2' ' H J' ' 1F E ' 8- ' / ' 2"' ' '
' / ' #' 8' -8J8--F-' -JH 2 - #JF-' 1#2# +F ' 8GF ' J#wm' ' SF '
#2#0' / !2' ! 2
!FZ' !& #JU+' F Z' 9 2' +-' ' ' ' J # T' -F ' : F#8-' / ' 1#2 [+ #1#J#-'
' ' # ' F ' E#8
!FZ' !& ' #U+Z' 9 2' 8G F ') ' ' / , ' XXX#' 8 #-' -F8' 9 2'
7T' !& ' (Z' 9 2' / ' 2 F' <2 G ' G
!FZ' !& ' [Z' ' 9 2' : F#8-' 7 ' / G& ' w' / ' % #
SF#8 I#
!FZ' !& U+2' Z' J U / ' / ' ' / ' "!' & ' $+w2#F ' F#28 -8'
< + F ' ' +J JH##-' <8+' + # 8-' ! ' w m
7T' !& U+2' Z' 9 2' F- # # F-' +# F+' F- # F-' +8G I#
7T' !& ' 9 2' : F#8-' / , ' 6+' ' ' ' G / !' #' 8' I80'
8+ #2#-' <#-J <#' E# #E##' -8< 8 +# y#-' # 8+ #w' E#J #' E# #E#F ' #'
J8 F ' <+w2# m
7!' !& Z' 9 2' ' 28<+ -F-' ##
7T' !& 2' # Z' 9 2' +-' 7 # ' # ' 4 ' 8G#-' 2 #w m
7T' !& ' Z' 9 2' JJ28-# ' 8 ' 1F E ' 8-
!FZ' !& U+2' +Z' 9 2' +-' / ' ' ') A !' 2 #' G #'
1#22#' &# + # ## m
7T' !& Z' 9 2' 7 ' % ' ') ' / , !' # # ' 8 +8 -# '
H # ' ' &# + # # ' 1#2# ' 8+ 2## m
!FZ' !& ' yZ' 9 2' +-' 5 , ' ') # !

! ' ! / 9 ! ! ' _

' 2' # 1' 9 2 ' +-' / A ' ' ' !' !
Z !& ' #' 9 2 ' / ' / A ' $+-2#F ' F28E+8 I 8 -8m' G8- F ' 8- '
' SF ' ' ' + ' _' ' ' 7 # ' w') ' I#J +8-'
,8+ Y') ' I8+ ' 1FG# ' _' # ' SF ' E#8' / G G8 ' 1FFE '
8- ' G82 ' # <8+ 8
!& 2' *7£ 9 2 ' /# #-' #J2#' ; #J +##' / ' / ' ' ' % , ' ' '
' !' 8 A ' ' A A ' ' / !' $+ -2#F ' -#2 I 8' & J +F ' # '
8E# ' G8- F ' ' 8E ' 1#2# ' +8 E #' J + ' &# + # #F ' 1#2cF ' 8+ 2## m@'
F- # F-' + +# F+' SF#' X#' #-' +8G I# ' # 8+#F-' # <8+ #
!& ' #2 ' 9 2 ' / ' ' !' 2F ' JJc8-# +F ' # ' <8+80'
G+# # 8 ' # m' $+# ' X' 8UF-' # ' A ' # ' $8 8J - 8 ' # J#E# m
) ' !& (' #2# ' T69 2 ' < ' / , ' 5 `2 en<ee`n G ' ' '
, ' 8EF ' #G+F ' <FE' G, # @ +-') ' !') # A !
!& ' #1' 9 2 ' +-') ' ' ' ' SF#' +8G I# ' F ' '
J8J#E# ' ' ' 5 , ' A ' ' # !' # ' <+ U2# ' + ' E' 8 ' #1#'
JJ#-F-' ' G8 #8 -# F- m' -8E' 1FG8+F ' # !
! & 2 ### ' 9 2 ' " # ' ' / , !
9 2 ' : F#8-' <#-' , Y
' !& # ' 9 2 ' / ' ' G% ' ' / ' , ' ' ' ' / # 4!'
$+ 82#F ' +E0 ' G8- F ' ' 2 ' < + I ' 1#2# ' #2#22#' 1#2##' G 22# m
^ 2 ' !& (' (' 920' +-' ' !' + ' _' 8 ' ' -!
' !& #U ' #2 ' 9 2 ' : F#8-' * ' ' / G G !' : F#8-' & ' / '
R+' ' ' I ` !' ><#' _' 8 !!!!2"' / !' : F#8-' !' 8' E8' 2F # 0'
J +8EF#2' #---8' 8-F' H+#- #' 8 ' + 8 E#' E8' 2F 18+ m
' !& <' (((' 9 2 ' +-' ' ' ' A A ' F I' 8 ' ' ' '
_' ' ') ' ' ' !' +-' EF +F ' ' F J8+ JH#0'
+F ' #' 8' 8 #' 1#2##' 1#2##' +J#' 8 ' 82# E##' 1#2##' & 2E#' 1#2##' 1#2##' + # m
' !& 2m ' # Z' 9 2 ' / !' % ' $+ 82#F ' 2 m
' !& #U ' ' 9 2 ' / J ' 7 ' # ' SF ' / ' , ' ') ' ' F # '
-# F-' # 8+18J -' 8- ' E8' 8- ' / ' _' ' / ' ' #' 7 ' # E8'
E#J# F+' / ' 8 ' 2 JF-' / ' #' 8' 2 JF-' J <# F ' # ' <2 # #8' / 8 # m' E8'
J <# # F-' 8 +F ' SF#' # ' 8#2 ' JJ#-#' -F @ / ' !' 7 ' ' * # '
, ' ' !' ' + ' ' ' ' ' ' ' # E8' E#X# ' $ +#J#F-@

B2C' =?49' O (24'(578' 3 4;' 3(: 4 ' ; 7 1 ' 55(2' : 78' 2 =5'458' : 78' ;=5<4 45?( )&'
-- ' x ' . ' # # ' ' $' # -
--Z&' #1 '
' 1 # ' # '1 ' ' ! - ' # ' x '0 ' % '
' '

! ! / ! !

L + # V , !

L / , V! # >, 2Y

+ +8F- 1#2#F- / 82# ## 1#2## 8 GF-[I#J +# <8<8+# # #- <+32#

JF- + 8 ,8+ Y 2 JF- #- # - # # # ^ E8 E#X# $ +#J# -@

J - !#28 E E 28 E 8- 12 # SF~8 8 # <28 8 # <28+8

+ +8FU E8J <# F @2FG8 # 1#H8 EF J ++# ! 2

8 8 SF#8I# # >< / # SF#8I#

U Z !&x #Z 92 +- / / # 4!@ #- XI# +8G

U Z A& *U1 * *Z 9 / ! $+*82#F # 8+#J8 -8 m

!& (f *# 92 / JF [E # m

Q ! !& 2 . 92 8 ## ,! / 2FX - I8 +#- #) < 2 m

A& 2**Z 92 : #8- 8 / G # XJ#I 8 #- -F8 @

+- ! 8 / S # 2# G G 8 !

/ ! +- 8E# 1#2## JHE JH# 8G#- J# ^ SF# F2#

J8EF +8 E $+ 82#F 2 JF- EF +F SF +F m

U Z A& U<U+ *Z 92 $+#F <8+#JF2F 4 !

Z !& U< * Z 92 +- / # / ! : F#8- 7 ' # , !

Z 2 * # #4 92 ,$+G82#F Y / ## !) ! _

8 ! / # SF J8J#E8+F I#J#

Z !& 2 **ZZ 92 +- 7 # ! , !

Z *U f ! 92 / ' 5 , ! $#182#F # #28 -8

G8- F 8E d 1#2# " F+ # m

& 1# Z 92 +- 8 ! ' 8G#- $#J +F m

A& 2* f ** 92 +- 7 # !) # * # !

F# 92 ' 7 ! !

!& & 92 : F#8- ! ! #- / G G !

A& *UJ1U+ 92 +- 8 !

f h 92 : F#8-) # ! / ! / , !) @

: F#8-) ,& I#E#-Y / !@ : F#8- 8 !

!&(U<U+U Z 92 #X G / ' # * ' ! 8 ! k

! $+ -2#F <# JH# J + #8 -8- F+ + 2# - G m

Z !& 2 i 92 + , ! 2 + # 8 - - H J m

B C =?49 0 (24'(578 384; 3(: 4 (? (55=8 -Z 4 -< !

-Z 45('5 ' 4 '5 @=! =5(5 1 ; 7 ?(';67'4 ' !

' s7'48 45('5 27('5<4 ('5 M (5^ (8 (! $ = 8 =' @ " . 4 '8 (8842'84!

s 7'48 '54'5 (' : '24!

! ! ' /' S /] ! ' / / (L

Ž !& U$ f**2' 92' 7 ' ' / , '8 ' /# F-' ! J# #-' ; #0'
J ++F-' +8 E #m' SF#8 I # ' # ' ><

Ž !& UJ U# *#Ž J ` ' ' "6' 7 2 ' - ' % # #' # ' / !' : F#J-'
' !' !' / ' '8 ' # ' - 8+# ' * 8 -8 s

Ž !& 2 U1 ' *Y*Ž 92' &818J # ' ! 2#-' # ' F # 'H + ' , Y

Ž !& U ' , fh' 92' 822F ') ' ' ' 5 'e !

Ž !& f ' ffh' 92' 5 ' + ' !' # # ; @ # I ' / ' 2 2
' ! ' ; F2 F-' 28 H 28' ! 8 JH #' 1#2U#' 2 #' G #' # # -'
/ ' # ' 8' # ' 1#2## / ' ' ' m

Ž !& f '*U+Ž 92' : F#8-' / , ' ' J 8' & # #J ' ' # m' I ' E' F# '
' XXX I' <8+8G+# # #-' -F8' 8 #-' I8+ ' XX I #' : F#8-' " +8G #+' 'F '
2##' E#JF ' , Y

Ž !& ' 92' / ' ' ') ' w' / ' ' + !' f ' 7 ' 1F0'
G8+ ' ' I#J +8- ' $+ 82# #' H Y' &+F#E F ' 8 ' <+ 82#F ' +E0-8 E '
'/ # #' 1FG8+F ' + E##' I#J +8-' 8+ m

Ž !& '*Ž 92' #' $ --# #-' & #' 6 Z . . ' # ' H J'

Ž !& ' [' 92' / ' + , ' / ' ' ' ' ' / , !' +-' '
/ # ' r 2' # ' ' ' ' 8 , ' !' ' !' $+ -2#F ' #-'
F 8' J + ' #8 -8-' G8- F ' ' VJH 8 -# F-' +-' 1#2##' F 0'
F-J G#' #' 8' I - # ' < <F2 +F ' <8+' + EF #F ' 1#2#F ' JH#' 8G8 #'
G8 #-8 m

Ž !& ' f ' 92' 5 ' ' ' ' ' # !' ; F2 F-' 28 H 28'
8E#' 1#2##' #+8JH#' <8+' G8 *8 -8- m' 8 ' SF#8 #' # ' >< ' # '
8 #-' -F8' X I #

' !& #+' # Ž 92' : F#8-' #-' ' W *-

' !& ' *Ž 92' : F#8-' <#-J <# @ : F#8-' / ' ' ') !
F-' #JH#' 1#2##' '& 22 #' < 8 - m

Ž !& ' f f ' 92' : F#8-' " +8G #+' 8 @6 : F#8-' + !' + ; !G ' ' + '
' / ' ' 8G#- @ : F#8-' + #' #-' / ' 8 !

, Y' J2#<-# ' H #J' +818+F ' 2' 2 ' E' ' . L ' -+ ' J ' . L ' 8 ' +8J 8' ; #E8' ' ' # ' < ' A
,AY' ! ' 2F ' ## ' ' . L) ' $+ 28G ' <4 X2 ? @ ! ' " +8G +#F-' ## ' ' K B1' 2Z' 22Z'
< ' A' ' ^' < ' _ ' ' ^' 8 ' < ' LZ' '
' '

! ' ! / ! !

n ' A&m ' ((' 92 ' e u ' / # ' 8 !' , Y4' G / ' / A G != / '
+ ' ' / N' ' ' ' T 2 / ' " I `A!G G / ' ' : F#8-
G 22#' 8 JH +8 -#-@ $+ 82#F ' F#20 28 W8 @ $+ -2#F ' ! 28 8 -8' G8- F '
JF ' 2 # ^' 8X' #J2# -' I #J +^' 22F-' 8 I -# @ $+ -2#F ' JH+F-8+#-8 m'
A& U+J #' 92 ' / ' ' ' SF#8 I #? ' _' 7 ' ' ' _' G'
' 8 ' --8+ F-' -' - 8+##' ' G ' #' 8 ' < + I #
< #- m
#2 ' A6' " ' " ' 92 ' : F#8-' + ' w' # ' ' + ' _' ' ' _' , '
E8' EX' ' @
M' 8 ' ' ' G ' V ' A# ' ' '
L' ' + ' ' V G ' ' ' ' , A !2F
F-' ! # 822#' 8 ' I F2 F-' 28 H 28' 8E#' ! 2 ##' 8 ' 8E#' H#+-F #' 8 ' 8E#' 1F2 I E'
E8' E#X# ' 8E' 22 @
G8 -' 8+ ' + 2#-' 2FJ F-@ <8+' +8G ' 2# 8+ ##J' #F-
&8' 8E ' ! 2 8 -8' JF #' F2 #-@ 8E ' 2##F+- ' 8 ' 8E ' 1F2 I
' ' / ' ' ' ' _' / H ' ' ' / #2#F-' 2 #' +8X' #E#a '
8 ' JH8 ' 8UF-' 8+m' +#F F+ ' ' ' 8 F# ' +8G F #
A ' A3-@ 92 ' # #F #' #+JF## ' 5 ' 8 , ' P2' # ' # ' ' '
; F2 F-' + EF ## ' #' 8' 8G#-' G8 # a' 1#22#' JH JH# m' ' -F ' 1 # #2# ' : F#8-'

^ F' A3-' Z' 5 ' 8 # !' A ' ' ' _ , !e (@ 92
A&J ' 92 ' +-' / ') ' _' * # ' ' ' + !
f3-' ' 92 ' : F#8-' + ' _' !' &8< -# # ' # ' ' / '
_' ' ' !' 8 !' / F2 #8 ' 8J#E# ' 8X8+8# F ' 4 ' ' SF# '
+ J2##' <8+ +#- ' _' SF + ' ' ! #-# F #' 8G#- ' _' 1# #-' + #J#' -#E +# ' , Y'
A&1' 4' 92 ' : F#8-' / ' ' w' 8 ' 2 !' +-' '
8G#-' # 8+ # 8 ' , ' ' ' +8G : F#8-' / ' ' / !

B C' !' = 1 (2' = : ' ' ' (55=' ' !' 55 (2!' 2 !' (?' (55!' ' ' @!' ' 5= !' !
B , C' 4? (5' = : ' ' ' (55=' k k' 55 (2!' 2 !' (55!' - ' 5= !' ' @!' Z!' k=5<4 ' 5= !' , ' @!' , Z I' 5= !' ' @!' , M '
4 ' 5= !' , ' @!' !
B C' 8'?= 78' O '8@ (2458'8' = : ' ' ' 84549' (55=' ! !' 3 =5' ; =5' 4G78' 4?' 75" ('8' '8' 2 ' ' 4 ' =2=5'A&'
' ' 4 1 '5d ' '5' (55=' ' ' !' 2=75 ' (224 ' 7@'5 ' '224 1 =5

! t ! / ! !

+ . !& b 9 2 / # # SF J8J#E8+F F2 # FJ2# 8- ! J +F
+# # # 8+ ! X 8- _ +# - , Y

u A&J b 4 9 2 +- / ! : F#8- 7 8 w
/ ! #J 2## E#JF SF#8- ' ! !

_ 9 2 / ^ + , % ^ # ' , ! $+w0
2#F #- F 2# G8- ## G08 #8 -# F- J + 82J 1#2#F 8E# m
F # J8J#E# ' , ! + +8G I# < - 8F#

3# 9 2 F- # 8 4 ! 8 JH +8 -#- F - 8+##
2#E#w U ,AY : F#8- / w K w ##2## ' # !

^ 1 A& 9 9 +- % ## w 7 # ! / !
J ' 7 # ! # ' ! V * #) u #
H >; 9 2 # +- $?# GF# # 1#2## 8E# +8G#- #w ; - # & 0
8Gw # X I 9 2 2 ## m +- / # w SF#8- # <#-+
J <# m 8++8 F- # G F- # " 22#

!& 4 9 2 , ! - ## : F#8-) ! 7 !

!& % 9 2 2 +- 7 # ! 7 w * # ! / ! w
+ # # , _ 8 _ + <# ' # !

9 2 / / , # $+w2#### 8 G8 -8m # SF J8J#E#
/ / , # ! / #!

U # 1 !&J ;. 9 2 / / # $+w2#F # # E82G 8 -8m # SF J8J#E8+
F EF #y2##m , & ! / , !G / + ,
! / I #J#

!&J | ez ` ! ! J ! : F#8- 7 # , ; ^ !G V
% # G5 7 ! 8 ! X< [G # +J#- " F 2## <8+
/ # JH 1#2#F 8 # m

9 2 : F#8- / + #- % # ! # I # -
!

, Y M /+ I +# F- +# 8+- # <<8 +- H K #- H8 +F8 E 8 Q # G28 '- P 28- E C B0
< 2K FJ +# 8- #- - # E#J @ F 112 +8J 8 # E#J I# # 2 2 E
8 < "

,AY - 8+#F 8 # 2 # E#- # GF8 EF 8- 8 # # P 22# -w# 2
E L 2 2 < AA 2G # J < A Jd2 A 8 --8+ $+# +E < L _
18+ 2 2 E F . . C . ^ . _ ^_B_ B < L _ . K ^___

A

A ! ! ! !

! & 1 9 2 +- ! % ! J2#<-#- ! 2#- , Y +-
' # ! 7 !
!&J #U+ 9 2 : F#8- / # _
L24 !&1 U1U4 9 2 +- / # ' 8G#- #-8 m
U 4 !& E U # 9 2 / / 7 # ' / $+)80
GG8+#- - J+# 2 <#EF /8+ E G# # 8+ #8 -8- 8 JH 8 -8- m 7 , G
7 I #J# ^ 5 1FG#
UL 1 !& UU 9 2 / * $+ 2#F U J2 E8 -8m # SF J8J#E8+F
/ _ + , 2" 8 ! F# 8 # 8 18+ X m
!& UU . 924 +- , ! ! /) _
, / ! / # ! 5 / ! !
+- JHE JH# 1F2 I # 1#2## 8E # $+#82#F +J#- 8 H+ , AY 8 +-
8E# 1#2## F# # ## 1#2## 2G # ; F2 F- 28 H 28 2JH# ## 1#2## &# # #
E8 # H F 8 m
^ 1 !& # ZZ 9 2 : F#8- 7 _ ' , !G +- / , # #
) 8G#- &8-# +F # m
.2 !& 1 4 9 2 +- G) # ' 8G#- JJ#E8 2#-
8 m +- / # , _ # + " 9 8 8 H# 8G#-
2 #J8 8 E # # +8G#- ! X F m _ J F- # J #- $+# # , Y
!& U1 # 9 2 : F#8- ' , ! G +- ! 7 # @
5 / ! ; F2 F- 28 H 28 H2F # U
!& J 9 2 / / G ! 7 # _ ! $# 22#F
#220 JH + # 8+ ' / # EG8 # - 8 + E# - m
!& ###4 9 2 +- ! % ! +- 2822# 1#2##
8E# <FE 2 JF H+8 28 m +- * # ! @ +- / #
8 # 8G#- +8G# 8 m : F#8- / # #- / 7
SF# + # I J F+

B C 55(2! 2 ! 3(5; ;2'@8'1 X<X (5 (? (55! KAB A (4 ; = 1 ! KA 4 4; 4! %'?4 5= ! ' : !
< BA
, AY &8 +J8 @ # I #E8 E J B) +# E8 < B< v 8 ; #2# | G###+ E
KAB ^ 2 2 E KAC 8 # < BB
, Y M 8G8 9 8 8 H# 8G#- $#J +F # 2 #8 Q W # 2 2 E K < BB

! ?' ' ! / ! ! ?

+ ' Q / nK ' 92' / -' / ' $+ -2##F ' ?F2 ?##-8m' # ' SF ' J8J#E# ' ' ' !' * # ' !' / ' !' + , ! V / ' 5 ' $+#82#F+ ' " F #m' # ' SF ' J8J# E# ' / ' !' ' #' # ' 8X' G8 # 8 m' 27 , ' 7 ' _' 7 ' !' / ' I #J +8- @ : F#8-' ' ' !' % !' q

KKK' 9#' X<F2-# ' ' ' ' ' J 8#' 8' HJ 8 -8' - 8+# m' ,' 'Y' G '1F E '8-

#2' '! ' 92' / ' ' ' ' / # ' !' $+)2#F ' H8 -8' # ' SF ' JJ#-F-' 8-' G 2' J 8JF- m@0 +-' 7 , G7 !' e ` ` ' ' !' !' J 8#' #-- +8 -#- m' ,AY

7' P#' $$$' # ' 9 ' : F#8-' + # ' #Z' #228E `? !# F' $$$' # # ' 92' : F#8-' ' ' # ' _' + ' ! J 8' _' / ' !' # ' _' 5 , , ' ' !

PJ' $$$' 4' 92' F- # ' _' UFGF2 # ' ' ' w!' & ' / !' 20' EF# #' 8 ' # - 8+##' -F2 8' E8G? 8 m

!M ' L' LLL' J ' '!en+') ' ' ' w' T ' , !' JF2 # m' , Y

2' !&' KKK' #4' 92' : F#8-' * ' 8G#-' G2 +' 4#6 G2#JF-0! X' 8+0' <+8-' # F-' - 2E' 8G#-' G2 +F ' #'8' 8+<+8 #-' G2 0! X #J I' SF$' # 8+ +F ' !8++## 8-' E' < <F2F ' ! X #JF ' # 8+<+8 F+ m' ,BY

' ' , '2' 92' / ' / G/ ' ' ' ' ' ' 8 ' w' * ' # ' ' 4 ' ' !' !' $+ 82#F ' # 0 ' # 8+' 82EF# ' 1#2#F ' 8E#' 8 #' 8 ' 8 GF-' # H 8' < + # ' 8' < + # ' < - ' 8+#E#8 ' @' : F#8-' ' ' / !' +-' ' - #' # ' ' ') ' 8G#-' &8-# +F se') ' !&' # ' [##' 920' +-' + ' ' !' & # ' * # ' 8G#-' -- +#-8 m@ +-' * # ' ' 5 !' <FE' I 228 ' # s' +-' 1 4X@' !' / !

+ !' KKK' .' 92' +-' ' , ' N' 7 ' ' / # ' / d !' JJ#-#' ' G 22 J <# #-' 2 G# m' : F#8-' ' f ' #-' 8 !

B C' %'?4' 55(2' G !' (?' (55!' kgg ' ' g ' =5' ;=5<75?45?78' ;71' + ' 7 1(4584!
B,C' %'?4' ':'?!' (?' (55!' k k ' 5= !' ' 4 ' 5= !' ' (?' (55!' - ' ':!' @!' ' 4 ' Z!
B C' %'?4' ':'? ' (?' (55!' ' 4 ' 5@ ' ' @!' !
,BY' &8' - 2E ' 8+<+8 8' # 8+ +' ; #E8' 8E ' #- ' ' J ' ' <' .

B ! ! ! !

9 2 +- # # ! E !
2 Z &8 #1 9 2 : F#8- ' ' A _ SF#8- 7 , !
m # +- / A # 7A # ! / - / / @
5 2) 2 A) _ /
8 2 ! : F#8- JH8 ## ##- E8) 8 E+ JH# # 8 - 8+##
< + I # < #- : F#8- / F+-J# E8 I # , Y m # +- +F E### 2## 1#2## 8E# 8G#-
/ #EG I # +F $+ ^2#F GG8+#- - J+# 2 <#EF 22# U $+ 82#F " F +##
8G#- ## J# JF &# + # # 1#2# 8E# # S## <+) 2# JJ#-# 1F8+8 & 0
JH E 8 22 EF 1#2## 2 H J# 8G#- # 8+ # ^ m
#21 &8 #1# 9 2 : F#8- G # #- / _ + # #- ; !
F # m
&8 +- / 2 ! / # & 8 ! 8G#- +#F 0
+F # m
&8 U+2 'T! : F#8- / & / _ ' A #- % G
! , AY ?
&8 U 2 ##1 9 2 4 2 G A SF#8 I # # >< , Y _ 7 2 ,
5 , SF#8 I #
&8 U+2 #Z 1 9 2 +- & ! + !) W 8
+ EF 1#2## 8E# ! 2 8 -#-m +8G F 8 F8+FF
) &8 1# ((% 9 2 : F#8-) 2 , _ / 2 , , 5 G !
: F#8- &# #8# #G+# 8 2 # I 82 J#- - 8+## " 2# E 2 JH8 -#- m 9 2
&8 <" <T 9 2 / / !
2FZ& `! e! ` % 72 ` ! !
&8 2 1 9 2 : F#8- / R / , 8 ! F # 8# 2 G#
; #J +## +8 E # m _ / 2 #) #- % & , !@ +-
' 8 W 8 7 # !@ &8 #22#- E#J F 8-
M ' , , 2 V , ,
L ' , 7 # V / # / E !>

B C 4 3=; (5; 345 '= '?4 55(2! 2 ! (? (55! - ! 4 7 84= '?4 4?! g ; ! ^X 4 55(2!
2 ! (? (55! Z ' ' 4 @(! ! !
B C %'?4 55(2! 2 ! (? (55! - ! B C : '? (? (55! - !

a a # S M @ ˢ = a = @ # S M a @ M @ .

#8+8ˢ ˢH J@ F2#F-ˢ G#)) 2 8+ ˢE8128 EF-
82EF# ˢ< +I -ˢ 1# F-ˢ / 8+GF-c#@ Gˢ8ˢ # 8 -ˢ2 GF- m
e ˢ ˢ ˢ8 G, A#ˢ EJ8####ˢ ##2##ˢ H##ˢ 8 8E#J # mˢ _ˢ ' Aˢ
A !ˢ # A !
2ˢ ' Jˢ 92ˢ +-ˢ ' ˢ !ˢ 7 #A ˢ # ˢ / A !ˢ 8G#-ˢ --82#a mˢ
!?ˢˢ((aˢ 92ˢ +-ˢ 5 ˢ `J # ˢ J# 8 m
3-ˢ ˢ#E ˢ 92ˢ +-ˢ / G/ ˢ ˢ 8 mˢ) ˢ !ˢ ˢ+ !ˢ
822F+ ˢ18J8+F ˢ# ˢ8A A,!ˢ : F#8-ˢ # !
f3-ˢ ˢ ˢ 92ˢ / ˢ ˢ7 ˢ !ˢ ' ˢ ˢ/ ˢ ˢ ˢ % Gˢ
ˢ ˢ !ˢ $+ 82#F ˢ 2 JF-ˢ /# #ˢ # 8+ˢ # ˢ8ˢ 0ˢ
J# ˢ# ˢSF ˢ JJ#-F-ˢ8-ˢ 2 # 8Hˢ 1#2#F-ˢ EJ# E## U
3-ˢ ˢ 1ˢ 92ˢ + 2# -ˢ G ˢ, Yˢ 2 "gˢ / ˢ ˢ # ˢ / A !ˢ
J8 Uˢ +c-ˢ 8G#-ˢ --82#Z mˢ +-ˢ) ˢ !ˢ ˢ + ˢ ˢ
% ˢ_ˢ 8 ˢ !ˢ ˢ+ ˢWˢ ' G, !@6: F#8-ˢ ˢ ˢ
!ˢ 28+ #ˢ - <#8 #- mˢ 7 - ˢ7 , ˢ SF#8I#ˢ# ˢ>< ˢ_ˢJ 8 8+#ˢ F2 #ˢ
ˢ8 E8 ˢ J 8ˢ E + #8+F ˢE8ˢ + 2# 8
!&ˢ ˢ # ˢ 92ˢ +-ˢ ˢ_ˢ 7 ˢ !ˢ) A ˢ_ˢ ' #ˢ
ˢ 8G#-ˢ G8 #-8 mˢ / ˢ $+#82#F ˢ 8mˢ# ˢSF ˢJ8J#E#
ˢ !ˢ / ˢ ˢ ˢ/ ˢ 8Xˢ + +8 +F m
^ 4 A&J4 ˢ*2 **£ˢ 92ˢ +-ˢ ' A A ˢ ˢ+ A, !
Zˢ 2ˢ ($4 92ˢ 1 +-ˢ 7 - ˢ ˢ ˢ ˢ 8G#-ˢ 2#E#- mˢ _ˢ 8 Jˢ
!ˢ ' , ˢWˢ * ˢ ˢ+ !"!ˢ - 2EF-ˢ+8Xˢ ! X F mˢ SF#8I#ˢ# ˢ>< ˢ,AYˢ
Q 4ˢ ˢ 92ˢ 5 ˢ8 ˢE ˢ ˢ ' #ˢ # ˢ ˢ ˢ) ˢ
' !ˢ ; F2 F-ˢ28 H 28ˢ + #ˢ 2 #ˢ 1#2##ˢ 2 JH + G#ˢ +8G#-ˢ &8-# +F+ #ˢ
2 #-8 m
U+ ˢ2 ˢ 1ˢ 92ˢ : F#8-ˢ) ˢ ˢ / ˢ ˢ / G !!
<#-J <#ˢ - 8+##ˢ 2 8E JH ˢ#ˢ8ˢ -8J8--F-ˢH88E8+#- m

, Yˢ 8Eˢ #- ˢ ˢ ˢJˢA_Zˢ +ˢ<ˢ Kˢ 2ˢ 2 ˢKKBˢ<ˢ.Kˢ ˢAˢ8ˢ xM$+w 8+ˢ ˢ
<F-ˢ# #ˢ 8 # + F# ˢ 8X # # ˢ 8ˢ-wJF2F ˢ#- F ˢ ;# ˢ$ +#J##ˢ ˢ8ˢ-J+#< ˢFˢ< 8ˢ8Xˢ --8+##ˢ
$+# +E <ˢC Cˢ Jˢ I# ˢ #ˢ<2F+# F-ˢ2 J#-ˢJ ++F< ˢ8E#E#ˢ8Xˢ E#J8ˢ 2 { -8ˢ 2G F- ˢ
2 J ˢSF + ˢ# ˢ +# E8
,AYˢ - 2EF-ˢ ##ˢ ˢKBAˢ 2ˢ 2 ˢ8ˢ H+ ˢ! X ˢ<ˢ ˢI82ˢKBBˢ8Xˢ H+ ˢ ˢ ; ;8- ˢ
18+ˢ 8Eˢ ˢ ˢJ K ˢm ˢ ˢ !FJJ8--#ˢ8#ˢ U #F-ˢSF#ˢ+8G I#ˢF-SF8ˢ EˢK_ H+ UZˢ! X ˢ +0
18+ˢ 2ˢ 2 ˢ Eˢ ˢK_ 7$0R.Cˢ ? 0)

K !' ! > ! !

Z' !Y ' 2 ' #H' 9 2 ' +-' / ' ! ' ') !
4' & ' 2 ' # F' 9 2 ') `#' ' ' $+) 2#F ' +8m' # ' SF ' / ' '
; ' !' J8J#J2#
Z' & ' 2L' *Y' 9 2' 5 i f ' / # ' ' 8 ' ' % , ' # ' 811# m
' ' 2 ' ' `!' n( f ` h ' 4 #' ' 7 E # !' &8- #0FJ # ' +J#-'
2#J2## -' <8+' / # JH ' J E#E#' J <#22 +F m
x '' <' 2L' '8 ' # ' : F#8-' ' !' / , ' :!' % # !
5 ' ' 2L' 2C''!' #2!' +-' 7 ' w' / ' G1`h h !' B C
' & ' 2 ' %#' 9 2 ' +-' / ' !' # @ : F#8-' / ' ' 8 G'
!
' ' 2L' L!' 9 2 ' 2 +-' ' ' !' ' B !
H ' ' 2LL!' 9 2' 5 i f ' / ' !' / # ' # ' / !' ; F2 F-' 28 2# 28'
J 1 82 E##' 1#22#' G 22#' 8G#-' E 8 m' : F#8-' / ' # ') , ' w'
+ , ' / # !' 8+8 8' 1#2##8' &F +## ' 8 ' ! F 8#' +J G#8 -#- m
7 ' ' 2LL' !' 9 2 ' 2 +-') ' # ' ' # !' 8G#-' F-J8++#a m@'
#F ' 8+ #a' + 2# #- ' ,AY
7 ' <' 2LL' !' #2!' +-') ' # ' ' 7 # ' Z') , ' ' !'
+-' &d 8 8' 1#2#a' '/ #EG8 ## ' 8 ' &F 8 #' 8UF-' 1#2## m
7 ' <' 2LL' !' 9 2 ' : F#8-' ' ' <- ' ' * !' <#-J <#' +#0
O 8 -#- m
7 ' <' 2LL' C! 9 2 ' / ' ' !' / !' $+w2#F ' G F ' # 8+
/ #J - m
7 ' <' 2LL' ' 9 2 ' : F#8-' ' :!' / # ' w' / ' :!' & , !
7 ' <' 2LL' !' 9 2 ' : F#8-' + # ' ' !
7 ' ' 2LL' : !' 9 2 ' : F#8-' & ' ' / ' _ ') A ' ' & - !!!!'
7 ' ' 2LL' <' 9 2 ' : F#8-' ' , ' / !
7 ' <' 2LL' L!' 9 2 ' +-' / # ' !' ' ' ! ! !' !' ' 8 !
7 ' ' 2LLLJ' 9 2 ' : F#8-' 7 # ' <- ' _ # ' / ' 8G#-
$#J +F m' , Y
7 ' <' 2LLL' !' 9 2 ' +-' / , ' !' !!!8 # !

Y' #8' 8- ' $ 8 ' 8 1 82 E' JFUF-' 8X ' 8 +#J # ' # 2# H8J ' ! 8 -8' ; #E8' $+ 28G ' < --# '
8 ' 2' 2 ' ' K_C ' <' K 2 ' ' . ' ,AY' 18+' 2' [U ' E' ' cc@ ' !' . K
, Y' 8G8' / ' {' ' ' F ' # ' 2' 2 ' KC

!ʾ !/ ! !

2yZʾ !&ʾ nnKʾ 4ʾ 92ʾ :F#8-ʾ/ ʾ8 ' ʾ ʾ8 mʾ4 ʾ <-ʾ ' # , !ʾ
!# Fʾ Y ʾ $$$ # ʾ 92ʾ +-ʾ 7 ʾ ʾ) ʾ # ʾ # ʾ 8G#-ʾ
G8 #w m

2yZʾ 7ʾ2 ʾ 7Zʾ 92ʾ +-ʾ 7 # ʾ !ʾ / !
+ ʾ #&Jʾ 2 ʾ K£ 92ʾ ʾ ʾ ʾ ʾ ʾ !ʾ E F-ʾ G
< + ʾ +# F ʾ # 8+F# # mʾ, Yʾ :F#8-ʾ ' #ʾ !
ʾ !&J U #uʾ #Z ʾ J`!ʾ e {ʾ7 ʾ/ U !ʾ / + #ʾ 9#g2 +8 -#- m

!&ʾ KKKʾ (4ʾ 92ʾ 2 +-ʾ ʾ !ʾ / ʾ # ʾ !G ʾ
+-ʾ 2822wʾ 1#2#wʾ JH8 +#ʾ 8G#-ʾ F#w m0

A&ʾ KKKʾ # # ʾ 92ʾ :F#8-ʾ ' ʾ $/ !ʾ # 8+ʾ 2# 8 -ʾ 8ʾ Fʾ +80ʾ
J8 # +8Yʾ <#-J <#

! ʾ !&J $) 92ʾ 2 +-ʾ ' , ʾ # ʾ ; W !ʾ 8G#-ʾ JJ#0ʾ
J28 2#-ʾ 2 # #w m@ :F#8-ʾ / ## ʾ !ʾ ' ʾ ʾ_ʾ 7E !ʾ 2G #ʾ 1#2##ʾ
2 8 JH#ʾ 8G#-ʾ 8ʾ <#-J <# m

y 1ʾ !&ʾ ʾ 92ʾ :F#8-ʾ / ʾ ʾ #- #8 -#- m

!&ʾ ʾ4ʾ 92ʾ :F#8-ʾ & # #ʾ !ʾ / #ʾ # ʾ ʾ ʾ_ʾ ' Gʾ
#ʾ # ʾ ʾ ʾ8 u !ʾ :F#8-ʾ +G 2 G#ʾ 1#2##ʾ G#ʾ +8G#-ʾ # 22 +F# ʾ 8ʾ
2F+8JH G#ʾ +8G#-ʾ ? +#F # +F# m

+ ʾ !&J Kʾ # 1ʾ 92ʾ / ʾ / ʾ ʾ / ʾ ʾ # ʾ ʾ ʾ / ʾ
!ʾ # #ʾ ʾ / , ʾ ʾ ʾ # ʾ !ʾ * # !ʾ $+w2#F
+ F8 -8G8- F# ʾ ʾ 822 JH ʾ 1#2# ʾ G822 JH#ʾ -# #2#ʾ JF ʾ J2#8 82ʾ 822 JH#ʾ
1#2##ʾ G822 JH#ʾ J + ʾ JH 8 -8-ʾ # ʾ SF ʾ JJ#-F-ʾ 8- G-8JHʾ 1#2yF-
8 GF-## m

7ʾ Jʾ %ªʾ 92ʾ ʾ ʾ; ʾ ʾ - <#8 -ʾ SF#8 I# ʾ # ʾ >< ʾ ,AYʾ
!&J ʾ #1#Zʾ 92ʾ 7 ʾ ʾ * ʾ 8Xʾ ! X +F ʾ SF#8 I# ʾ , Yʾ 2 +-
ʾ ʾ # ʾ / !ʾ 8G#-ʾ J#w m

HCʾ %'?4ʾ 55(2!ʾ 2 !ʾ (?ʾ (55!ʾ << ʾ 5= !ʾ - ʾ @!ʾ Wʾ sʾ 4ʾ k kʾ 5= !ʾ ʾ@ʾ ʾN ' 41ʾ (55!ʾ '8 ʾ5= !ʾ g ʾ
@!ʾ ' ʾN (55!ʾ '8' ʾ5= !ʾ ' ʾ@N ' 'Nʾ 4ʾ (55 Z ʾ@!ʾ '8!
B Cʾ %'?4ʾ ='4 =1 !ʾ @!ʾ 999ʾ 4ʾ 55(2ʾ Y2 !ʾ '5ʾ 5= '8ʾ @ A;4?45 ':78!ʾ :''ʾ ?'4ʾ , ʾ ; =:!ʾ Z !
B Cʾ 0':4 5ʾ .4 41ʾ (9=571ʾ . 1 ʾ (@@422(5ʾ (ʾ 1 (4ʾ 67^ʾ 7ʾ ('75 ʾ <'2'(ʾ <7'
. ʾ . vʾ .4 '8ʾ 0':4 5'A!ʾ 55(2!ʾ 2 !ʾ 55= !ʾ @!ʾ , ʾ ,M!ʾ '8 '5 745?ʾ j ʾ ! 8# ʾ
ʾ w 1#) :'' ʾ 2?< '?78ʾ (55=ʾ Z -!ʾ 55(2!ʾ 2 !ʾ @!ʾ '8ʾ 5!ʾ ,!
ʂ ʂ &

!ˢ ! / ! !

^2Wˢ !&ˢ ˢ 4ˢ 9 2ˢ ' ˢ) ˢSF#8I#ˢ H ˢ$ < ˢSF#8I# V ˢ Gˢ
ˢ ˢ5 , ˢ ˢ ' !ˢ ! + G8-ˢ G8 #8 -#F ˢ <FEˢ " +ˢ# ˢ # mˢ
4ˢ !&Jˢ ˢ## ˢ 9 2ˢ / ˢ ˢSF#8I# ˢ / ˢ ˢ ˢSF#8I# ˢ
U 2 ˢ A&Jˢ n ˢ b Zˢ 9 2ˢ / D ˢ ˢ / #ˢ ˢ& , ˢ &, ˢ SF#8I# @ˢ
& / ˢ ˢ / ˢ ˢ ' #!ˢ n ; - # ˢ 2# J2##ˢ <8+ˢ + JF ˢ ˢ
8 G m)
!&ˢ n ˢ | ##4ˢ 9 2ˢ / ˢ + # ˢ !ˢ # W ˢ ˢ - ˢ D ˢ ˢ / #!@ˢ
$+w2#F ˢ !8G8ˢ # 8+ˢ G8 U8 -8-ˢ # ˢ S ˢ JJ#-#ˢ -F ˢ EF ˢ 1#2##ˢ 822 G# mˢ
a .ˢ !&ˢ n ˢ .ˢ 9 2ˢ / # ˢ ˢ 7 # ˢ ˢ ˢ 8Xˢ ' # 22 +F m
#4ˢ !& ˢ 9 2ˢ / ˢ ˢ 7 , ˢSF#8I#
#v ˢ !& ˢ (ˢ 9 2ˢ 7 , ˢ , ˢ < +IF-mˢ ˢ / ˢ ˢ ˢSF#8I# ˢ / ˢ / ˢ
7 #ˢ $+w2#F ˢ GG8+#-ˢ - J+#ˢ 2 <#EF ˢ / 8+ E G# mˢ # ˢ SF ˢ J8J#E# ˢ / ˢ
ˢ ' ˢ ˢ / !ˢ 8Xˢ --82#w m@) **J`*#+J8ˢ ˢ * # ˢ 8Xˢ -0ˢ
- +#wmˢ +# F+
!& ˢ ((Zˢ 9 2ˢ / ˢ !ˢ ˢ ˢ $+w2#F ˢ# 8+ˢ ' # 22 -mˢ # ˢ SF ˢ J8J#
E# ˢ ' ˢ !ˢ +-ˢ ˢ D ,ˢ ˢ ' !ˢ 8E#ˢ #G+#ˢ E8ˢ #8 -#F ˢ
< + 8 m
Zˢ !& ˢ ˢ 9 2ˢ / ˢ ˢ 5 W ˢ ˢ W # ˢ 8Xˢ G8 #wmˢ +# F+ @ˢ
7 G7 , ˢ ˢ !
+ ˢ !& ˢ#|4ˢ 9 2ˢ / ˢ * ˢ % ˢ ˢ 7 # !ˢ #X # ˢ
FE +F ˢ 2 # 8 -#F ˢ # ˢ 8 ˢ J I J # ˢ Eˢ <FG ˢ #-J8 E ˢ <8+ˢ 8G8 ˢ
/ G + JH mˢ , Y
ˢ !& ˢ 1Yˢ 9 2ˢ : F#8-ˢ ' ˢ ˢ wˢ / # # ˢ ˢ % # !ˢ , A Yˢ
/ ˢ ˢ 7 ˢ ˢ ; ˢ 8Xˢ JJ#E8 2#-ˢ #wmˢ
+# F+ˢ
ˢ !& ˢ ˢ 9 2ˢ % ˢ ˢ) ˢ ' ˢ ˢ !!ˢ !ˢ +# F+
ˢ !& ˢ #4ˢ v !ˢ & ˢ # ˢ ˢ 7 # ˢ ˢ ' !ˢ ; - # ˢ G8
#wˢ <8+ˢ / 8+G 2ˢ 1#2#F ˢ 82EF ## m
ˢ !& ˢ F 4ˢ 9 2ˢ / ˢ ˢ & ˢ &, ˢSF#8I#
ˢ !& ˢ # 4ˢ v`!ˢ ˢ ˢ ' ˢ ˢ / ! ˢ __ !=G& ˢ 8 #

Bˢ ˢCˢ %'?4ˢ 67Aˢ ?4ˢ 7?'8ˢ $ ˢ?' ; (ˢ875 ˢ 55(2!ˢ 2 !ˢ (?ˢ (''5!ˢ Z ˢ%ˢ Cr ˢ 4 ˢ '5< (ˢ (?ˢ (55!ˢ x ˢ
B Cˢ %'?4ˢ 67Aˢ ?4ˢ z2'=ˢ (5;345'=ˢ ?' ; (ˢ875 ˢ '5ˢ 55(2!ˢ 2 !ˢ (?ˢ (55!ˢ Z , - ˢ 4 ˢ '5< (ˢ (?!ˢ (55 ˢ Z , !

/ ! 7 # ' ! 7 # ' % _ # 7 # / ! ; ! # # , , F * # W ! 2 r S # 8+ # +8X# X I ## #- / ! 7 # 7 G ! / 8 ! / ! ; - # +8G#W <8+ H 2 1#2#F / # GF# ## +8G8 + #W 8 <F- 8 # #8+F < J8+V #- 8 8 / 8+G 2 1#2#F- 82EF ## 8X 8 +#W 8 -#J28- ETE# / 8+G 2 H 22 @ # -F SF# SFT +8G8- SF# -F 8G8+F # 8+ # < - 1#E8 E8 +8G# F- + #W 8 8 GF- 1#2#F- E1+ JH# 8 8UF- 1#2#F- # 84 JH #E SF# # 8+ # +8X# #- _ 8 H # 1#2#F- / # GF# ## 8 / 82# 1#2#F- +# H # 8 +# 1#2#F- 8 8 H# m

3-- 4 92 / ! 4 , $+W2#F # 8+ # 22 - 8 <IW2#F JH E m # SF J8J#E8+8 7 # ' W F2 # #28- JF #22 W # ! W +8G F 7 ,)8 - + G8- I 2E8 G G8 #8 -#F 8 +8G F / 2 8+ JH# # J#<# E8 ' # 22#- m

+ !&J #+#Z 92 +- & ! ' # / @ +- i ! % # / , ! 8G#- +J -J# #W m

A YJ V##Z 92 : F#8- / / ! !

!&1 92 +- 7 ! !

W* + 3-- f. 92 , # ``JJ8 $+W2#F <<#E# ! X# H E#8 22# 2 Jg m SF J8J#E# / / G / ' I #J# m

!&1 U . 92 +- ' ! 8 # # ! 8G#- G8 #W m #4 !& J 4 +-) ! / - # / ! 8G#- 0 J#W m

+ !& 1 U/ o 92 : F#8- + , W !

+ . A&,1 92 : F#8- / i !

1 !$ nK. 9 +- / ! #) ! 8G#- &8-# +F m

92 +-) , ! # 7 # !

+ !& 1 . 92 : F#8- # / / , 8 # ! 1#2#W F+J## ; #0 J +#W +#G#EW # 8 #--W 9 #2E 8 -#- m

!&J1 #4 92 +- ! / # # ' 8G#- JJ#0 E8 2#- + #W m R ?

+ . A&11 n . 92 / ! / ! 7 # W7 # #

! ! / ! !

7 * # $+w2#F # +8G# 8 # 8+ H 2 1E#F
/# GF# ## 8 / 82 8G8 G8 #w # SF JJ#-F- 8- / 82JH + +8X -0
- +#w m _ `I#J + 1F# @ 8E - <#8 - SF#8I# # >< , Y
3-- | 92 +- / ! # # / !
^L 2 !&1 KK 7W 92 : F#8- / ! ! !
!& # 92 +- 7 # #! V / 4 - 2# - @
+- / 82 # +8G#- G8 #w @ $+w2#F JH E -8JF EF 2# - s
!& 92 + / G8 ! H]- F 0 + 0
8 -#-m SF#8I# _ # G/ !
eL !&1 [# 92 ' ! % # ! _ / % # !
2 !& . 92 : F#8- / i 7 _ 7 7 /
G ! : F#8- F w #- /8+ 8 -#- 8 /2 # 1#2##
2 # +8G#- # ++ G#w0 F JH+w m
^ !& . 92 / ! 7 # ! S ' ! ' G
4 EX @

M % & , , , GD

M & H #2 '?

H 2 1#2# - /# GF# ## +8X # 8+ #w +# F+ E8 SF 8J F- 0
#w E#X# @

28J8 -#- ,J#I# -Y SF 2# 8+ I# 2 8F- <8+ 8UF- 2# F#

+8I# # 8XJ8228 # 8X SF 8 + +8X# H 22F- m

!7 92 / + # !
$+w2#F !8+8E #G # 8+ ' # 22 - # SF JJ#-F- 8- 8E 22 m@ : F#8-
' * ' # 2Fw E8 - 8+# F G +# m
2 !& % 92 +- # !
22 !& %# 92 / / # ' ! ! / G
! $+w2#F ! 2Iw + # F G8- F #8F-# F- # SF JJ#-F-
8- + +8F- 1y2#F- | E# #-J## m@ : F#8- !@ / G/ F0
JF# 8F- - <#8 -m SF#8I# # ><
!& U+U1U+ ##Y 92 : F#8- @5 , ! ; F20
F- 28 H 28 8E# #G+# m

B C 4 (55= = : ' 7(24 4?(4 '?4 55(2! 2 ! (? ('1! Z 5= ! ! T
B, C 4 ('?8 + '?4 55(2! 2 ! (? (55!Z, U 5= ! @!ZMG 4 87@ ((? (55!Z !

! ˢ ! / ! ! A

+ .ˢ !& ˢU Uˢ 9 2 ˢ : F#8-ˢ ' 2 ˢ / ˢ 2 ˢ E# J#ˢ 2 0ˢ
+J28 -#- m
A& ˢU;\Kˢ 4 ˢ 9 2 ˢ +-ˢ / # ˢ ˢ % # ˢ #-ˢ -0ˢ
8+##ˢ J 22#-ˢ ! 2#-4m
!& ˢ ˢ | #4ˢ 9 2 ˢ : F#8-ˢ / # ˢ ˢ !
3--ˢ KK ˢ ### y1ˢ 9 2 ˢ +-ˢ) , ˢ , ˢ ˢ ˢ ˢ ˢ ˢ 7 # ˢ
8G#-ˢ / #EG8 # +F mˢ : F#8-ˢ / ˢ ˢ / ˢ ˢ ˢ 2 #ˢ
1#2##ˢ #ˢ # ˢ + # ˢ -F2 m
3--ˢ UUKˢ .ˢ 9 2 ˢ : F#8-ˢ / # ˢ ˢ ˢ ' ˢ #-ˢ 0ˢ
- 8+##ˢ 8 H8 -#-ˢ ! ˢ JH 8 J# mˢ _ˢ SF#8-ˢ 7 G G ˢ ^ ˢ #-ˢ
/ 2G 7 ˢ 8 !G / ˢ 7 ˢ ˢ 8 , # ˢ ˢ 7 # ˢ _ˢ / Gˢ
!ˢ $+ 82#F ˢ / 8 + JHˢ # 8+ˢ E G 2ˢ 1#2#F ˢ / 8+G 22#ˢ 8 ˢ 8 E1 82 E mˢ
: F#8-ˢ ˢ 4 # ˢ #-ˢ @
!& ˢ ˢ 9 2 ˢ ˢ -ˢ / ˢ !ˢ !
ˢ %& Jˢ 2ˢ #4ˢ J !7 ˢ / , ˢ +#ˢ @#ˢ # ˢ 8Xˢ ' v#F# 0ˢ
+F mˢ # +# ##4
ˢ !& ˢU+#ˢ 4ˢ 9 2 ˢ ' EW ˢ -ˢ & G, G; ˢSF#8 I #
4ˢ !& ˢ % ˢ 9 2 ˢ 7 # ˢ ˢ / ˢ, ` ˢ 8``W#J ˢ # 8+ˢ 2# 8 -Yˢ ˢ / ˢ
8Xˢ J#wU +# F+
!& ˢ | ˢ 9 2 ˢ ˢ + W#ˢ SF#8 I # ˢ # ˢ ><
ˢ !& ˢ ˢ #24ˢ 9 2 ˢ ' ˢ 2 ˢ / ˢ E + # I #
!& ˢ ˢ ˢ J !ˢ / ˢ !ˢ ˢ ˢ _ˢ 4 ˢ ˢ ˢ $ w2#F yˢ
8+ˢ ' # 22 -8 ˢ 2 #8 -8-ˢ # ˢ # ˢ # ˢ SF ˢ J8J#E# ˢ) # ˢ ˢ / Gˢ
#ˢ , ˢNˢ 7 ˢ ˢ _` Eˢ +8Xˢ 2 #wmˢ I #J +ˢ 1F# ˢ +-ˢ) Gˢ
ˢ # ˢ # !ˢ 8G#-ˢ G8 #w m
+ .ˢ !& ˢU+2ˢ #Z# ˢ 9 2 ˢ % - ˢ ˢ ˢ SF#8 I # ˢ w!ˢ , ˢ ˢ & Gˢ
ˢ ` W#+ @ˢ +-ˢ ˢ # ˢ #!ˢ 8G#-ˢ G8 #w m
2y ˢ !& ˢU+Vˢ ## ˢ 9 2 ˢ + ˢ 8 wˢ) , , ˢ ˢ
E + #8+F
!& ˢ ˢ .ˢ 9 2 ˢ / ˢ -ˢ / ˢ !ˢ ˢ SF#8 I # 0) & +#+ ##ˢ -ˢ
& G / ˢ +# F+ @ +-ˢ 7 ˢ ˢ ˢ # ˢ ˢ 7 # !ˢ 8G#-ˢ / #E
G8 # +F m
ˢ !& ˢ Hˢ : F#8-ˢ ˢ <-ˢ !) ˢ ˢ !!!ˢ
I & ˢ # ˢ ˢ ˢ < 8G#-ˢ ' # 22 +F m

A A ! ˢ ! / ! !

: 4ˢ f 21ˢ *ˢ 4ˢ 9 2 ˢ : F#8-ˢ ˢ #-ˢ ' # @ +-ˢ
fˢ) ˢ # ˢ / !ˢ 8G#-ˢ J# 8ˢ m
1 !ˢ A& ˢ ˢ * i ˢ : F#8-ˢ , ˢ / 8 #!ˢ #-ˢ 2F + G8 -#- mˢ
&*ˢ ˢ ˢ 9 2 ˢ : F#8-ˢ / ˢ / , ˢ 8 !ˢ / !ˢ !ˢ ' !E ˢ
' ˢ !ˢ ˢ ˢ 8 #ˢ ˢ ,ˢ 7 # ˢ _ˢ ,ˢ / ˢ r"ˢ , ˢ
8 #!ˢ : F#8-ˢ +# #ˢ ; #J +##ˢ +8 2 #ˢ 2F 18+ 8 -#- ˢ ; #J +# ˢ E8ˢ 820ˢ
EF# ˢ 1#2# ˢ 8E#ˢ # ˢ +8G# ˢ < + ˢ <8+ˢ / #EG# # - ˢ 8 ˢ <8+ˢ I #+ -ˢ 2# JH#a ˢ # 8 ˢ
+8G# 4 m

!&J ˢ 2ˢ * Zˢ 9 2 ˢ 5 ˢ ' ˢ ˢ # ˢ ˢ / ˢ ; F2 F-ˢ + 28ˢ
F+JH E#ˢ 18+ J#-ˢ +8G#-ˢ E#T 8 8ˢ 22# m@ +-ˢ + , ˢ #-ˢ ; !

A& ˢ 2ˢ K4ˢ 9 2 ˢ ˢ -ˢ ˢ SF# ' I # ˢ (+-ˢ) ˢ # ˢ
/ !ˢ 8G#-ˢ J# U mˢ : F#8-ˢ 7 ˢ ˢ + , ˢ #-ˢ Gˢ
!

!&1 ˢ 2ˢ 1#i ˢ 9 2 ˢ m +-ˢ / , ˢ ˢ / #ˢ # ˢ ˢ 7 @ˢ
8G#-ˢ / # JH+ JH +F m@ +-ˢ % ˢ # ˢ / ˢ 8G#-ˢ +J 20ˢ
+ 8 mˢ R

+f ˢ !& ˢ 2ˢ (%4ˢ 9 2 ˢ & ˢ # ˢ ˢ) !ˢ / i ˢ 8 #G , ˢ ˢ ˢ
ˢ ˢ # , !ˢ ; - #<ˢ G8 8ˢ <8+ˢ & JH EF# @0$+ 2# ˢ 2G0ˢ
8 -8ˢ J + ˢ ? # 22 -ˢ < + F ˢ ˢ G8 #8 -# F- mˢ #ˢ I # -ˢ 7 ˢ
ˢ / !

+ ˢ ; ˢ ˢ '2Jˢ 9 2 ˢ 7 , -ˢ -ˢ / !ˢ !ˢ ˢ 8 ˢ ˢ ˢ ˢ
& , ˢ E8ˢ - 8+# ˢ 28J8 -8mˢ E + #8

! &* 2*U+Zˢ 9 2 ˢ ˢ -ˢ / G& f ˢ E + # I # ˢ + , ˢ -ˢ
ˢ / G ˢ / ˢ SF#8 I 8+F

+f ˢ !& ˢ 9 2 ˢ + , ˢ / # ˢ SF#8 I # ˢ + ˢ ˢ ˢ 7 ˢ
) , ˢ E +! V ' H / ˢ # ˢ ˢ 7 # ˢ , i ˢ ˢ / !ˢ ,ˢ
! F #+28JHˢ -ˢ #- +8 -#- ˢ 8 ˢ / 82#Xˢ -ˢ &F 28-J8 -#-ˢ E #8+FF ˢ
+-ˢ 8 1 82 E##ˢ +8G#-ˢ / *EG# # +F ˢ 8 ˢ 8JH +a ˢ +8G#-ˢ +J + 8 ˢ
ˢ v !ˢ / ˢ / ˢ / ,!ˢ ; 8J #G 2ˢ # + #ˢ - 2F0
F ˢ ˢ JH 8 -# F- m

U!2 Zˢ 3 -ˢ x ˢ ˢ 9 2 ˢ +-ˢ / ˢ ˢ) #ˢ # ˢ # !ˢ 8G#-ˢ
G8 #*8 m

: !ˢ !& 1ˢ & ˢ # ˢ 9 2 ˢ Hˢ + , ˢ ' ˢ $+ -2#F ˢ 8 #-ˢ #-mˢ # ˢ DUF ˢ J8J#E# ˢ ˢ
ˢ / !ˢ +-ˢ 7 #ˢ !ˢ) ˢ ˢ / !ˢ 8G#-ˢ J# 8 U

! ˢ t ! / ! ! A

@ +-ˢ) , ˢ " !ˢ / !V 8 ˢ / ˢ ˢ %A # !ˢ &80ˢ
8+-# ˢ JH 8 -#F ˢ <FJ2ˢ #+8E G2 - mˢ <2F-SF ˢ J8 F @
))(3-ˢ Uf #74 92ˢ : F#8-ˢ 7 A ˢ / : F#8-ˢ ˢ !ˢ !!
`@ +-ˢ ˢ # ˢ # ˢ ˢ !ˢ 8G#-ˢ ' # 22 +F m
!& ˢ 2 ˢ 92ˢ # #F ˢ #+JF## ˢ 8 ! ˢ ˢ , !ˢ !ˢ : F#8-ˢ
/ # ˢ ' !ˢ F+ ˢ + 2# -ˢ G ˢ # ˢ H Jˢ ˢ # F-ˢ G #ˢ
- 8+##ˢ 8 m
+ .ˢ A 7JJˢ A ˢ A_ˢ 92ˢ : F#8-ˢ ˢ #-ˢ ˢ !ˢ !ˢ ˢ #Xˢ F2 + ˢ EF
! 71 ˢ & ˢ .ˢ 92ˢ : F#8-ˢ + ˢ #-ˢ & ˢ &, !@ : F#8-ˢ 7 ˢ
ˢ 7 , !ˢ / 8JH #ˢ - 8+##ˢ / +8 -#- m
#ˢ !& J 2 ˢ H #4ˢ 92ˢ : F#8-ˢ + ˢ ˢ #-ˢ , !ˢ : F#\-ˢ
ˢ #-ˢ !@ +-ˢ) ˢ # ˢ % !ˢ 8G#-ˢ 8 +# 8 mˢ
!&1 ˢ & ˢ .ˢ 92ˢ +-ˢ) ˢ ˢ 7 G ˢ # ˢ ˢ 7 # ˢ
8G#-ˢ / 2G# +F ˢ # 8 ˢ ˢ / 2# 8 mˢ _ˢ 2##ˢ F2 #ˢ # ˢ / / !ˢ : F#8-ˢ
7 ˢ #-ˢ / ˢ 8 !@ : F#8-ˢ + ˢ ˢ % ˢ Gˢ
!ˢ : F#8-ˢ 8 ˢ + ˢ ˢ !ˢ m) : F#8-ˢ ! +28JH#ˢ H#<+ 8 -#-ˢ # ˢ
#- +# ˢ : F#8-ˢ 8 H822 JH#ˢ !8 JHF 8ˢ E#J #ˢ - <#8 #-4m
!& ˢ 92ˢ / ˢ , ˢ ˢ ' ˢ ; 8J #G 2ˢ 2 8#ˢ - 2F F ˢ ˢ 0ˢ
#8 -# F- Uˢ : F#8-ˢ , ˢ #-ˢ / !ˢ !ˢ !ˢ : F#8-ˢ / ˢ
#-ˢ % # !
A&JJ & ˢ .ˢ ˢ 92ˢ 7 # ˢ ˢ + ˢ - <#8 -ˢ SF#8 I # ˢ ˢ ˢ
7 ˢ +# F+ ˢ +-ˢ # ˢ # ˢ / , !ˢ 8G#-ˢ +J EF 00ˢ
I 8 m
#< Jˢ 2 Uˢ Fˢ 92ˢ +-ˢ ' ˢ !ˢ ˢ ˢ / ˢ ˢ ' !ˢ 8G#-ˢ
8 @ +-ˢ + ˢ !ˢ A ˢ !ˢ 8A ˢ ˢ ˢ 7 #A !ˢ 8G#-ˢ
/ #EG# # +F mˢ % ˢ !ˢ % D# ˢ ˢ / !!ˢ !ˢ 8Xˢ J# 8fmˢ
4ˢ ˢ & ˢ .ˢ 92ˢ / ˢ -ˢ & ˢ ; , ˢ SF#8 I # ˢ / ˢ ˢ
E + # I #
L#Fˢ A 7JJ ˢ ; .ˢ 92ˢ ' ˢ ' ˢ !ˢ ˢ !V / ˢ ˢ 7 # ˢ
& ˢ / ˢ # ˢ !ˢ % ˢ -ˢ ' # ˢ +-ˢ % ˢ Wfˢ ˢ
ˢ / , !ˢ 8G#-ˢ +J -J# # 8 m
4ˢ !& ˢ 2 U#ˢ .ˢ 92ˢ ' # ˢ -ˢ / !ˢ !ˢ ˢ E + # I # ˢ 7 ˢ -ˢ
+ ˢ _ˢ ˢ _ˢ) ˢ SF#8 I #
Q .ˢ A&Jˢ & ˢ H#4ˢ 92ˢ +-ˢ / ˢ !ˢ ˢ # ˢ ˢ !ˢ 8G#-ˢ
H +F m0) #7 c `#W8 ˢ ˢ) ˢ 8Xˢ & 2 + E# 8mˢ +# F+

! ' ! / ! !

+ .') J' (*UJ' j' J`!' / ' ! / A#' -' ' @
5 i f ' / # ' !' / ' # ' ; G' 8G#-' JJ#E8 2#-'
+ ' '##8 m
' < J' 4 ' P(' 9 0' ' ' <-' % ' % ' -' / # '
,<##8 I # ' E ' I @ : F#8-' ' #' #-' / ' 8 !
#F' ' UUJ ' 9 2 ') ' 2 ' ' SF#8 I # ! V 5 ' / '
<' !' ' / , !' $+#82### #' JH# ' # ' SF ' JJ# -F-' 8- ' 8X' +J 0'
EF ##8 m
4' !&1 ' 4' 9 ' ' # -' 2 , ' % ' -J+# ' -' 8 G'
' ; ' -' / !' !' ' +#F F+ ' / ' # ' ' '
E ' * ' #!' ; - # ' 8G #' #- +#88' +8G 8' 8E # ' +F1 m@'
% ' 2Y -' / ! ; 2 ' 8 ' ' ' '
4' !&JJ' #4' 9 2 ' * # ' 8 ' !' ' #' # -' # ' _ ' ' # ' '
' !' * ' ; ' / ' !' ' ' ' !' w' ' , ' ; !' ?! ' $ '
- ' , ' ' !' ; - # ' n+8G #Y' + ##' *####' F+8 2# G#' 8G#-'
G8 ##8 ' 8 ' #<-8' JJ#-F-' <FE' #220JHF28 ' ; - # ' a' 2F +8' J0'
J#8-# +F # ' 8 ' -F2 ^' F+8 H G# ' 8 ' -F2 -' I JJ 8' 2 ^ ' , Y' : F#8-' / 8 E280'
E JH#' < + I #' #-' +E# JH F# m
4' !&J ' # 4' <*!' 5 ' ' ' ' ! ' [5 h ' # 8+ # m' ,AY' +-'
' , ' !7 ' # ' / G !' 8G#-' # ++ G#+802F JH++8 m'
/ ' !' 7 # ' ' / ' 8X' J#+8m' # +# F+
224' !Y1 ' <nnn' ' 9 2 ') ' !') ' !' ' !' ' ' % a 1'
28X' 8 +# 8m' +# F+
07J' ##74' 9 2 ' # #F ' #J2#' -8JF E ' 18+# ' #X' F - @ : F#8-' 7 G
, ' !' 7 !
07J' !&JJ' ' #74' 9 2 ' ### ' 18+# ' XX ' F ' 5 ' I F2 F-' + 28s') G'
' !') !' / ' I #J + @ +-' ' ' ' !' 8G#-'
G8-#+8 m
4' A&J ' ' #224' 9 2 ' #### ' 18+# ' # ' F ' ' ' -' 5 G G '
SF#8 I # ') , ' / ' / # ' SF#8 I # ' # ' > < @ 9 2

B C' =5<4 ' 55(248' 2 !' (?' (55!' ZM ' 7 : '' ?4' @ ' 1 (' (8 ('=54' 0L=5A!
B , G' %'?4' 55(2!' 2 !' (?' (55=8' ZM ' 4 ' ZM ' 7 : '' ?4' @ ' 1 =' (? 45 7' (5= 7 1 ' 0 ' : 4 5'(1 !

! ˢ ! / ! ! A .

W* +ˢ !& ˢ * ˢ ***#*4ˢ 9 2ˢ ' # # 4 !ˢ 8G#-ˢ ' # 22 +F# m0ˢ
: F#8-ˢ * , ˢ #-ˢ / !ˢ ˢ 8 !ˢ 0
+ .ˢ A& ˢ f ˢ .ˢ 9 2ˢ / !ˢ / # ˢ ˢ # ˢ # 8+ˢ # ++ G# -ˢ
J ˢ G JH - mˢ ˢ SF ˢ J8J#E# ˢ ˢ 2 ˢ ˢ *+<+# @ 9 2ˢ 9 2ˢ
+ .ˢ !& ˢ n ˢ Z ˢ 9 2ˢ * - , ˢ ˢ) , ˢ # ˢ ' ˢ 8Xˢ ˢ
1F F+ -ˢ #18mˢ +# F+
W+ +(!7 J 8ˢ & @ JG ˢ 5 # ˢ !ˢ) #ˢ ˢ ˢ _ˢ / Gˢ
ˢ SF#8 I #
#21ˢ 8ˢ 1ˢ 9 2ˢ / ˢ ˢ ˢ) , ˢ -ˢ ˢ SF#8 I # 00ˢ
5 ˢ / # ˢ ˢ % #ˢ ˢ !ˢ ; F2 F-ˢ + 28ˢ G 22#ˢ 1#2##ˢ H E8#ˢ
ˢ 2 # m
#21ˢ A78 ˢ 8ˢ 1ˢ 9 2ˢ % A ˢ ˢ % # ˢ # ˢ ˢ ; #+ˢ
28J # F ˢ #ˢ 8 ˢ $+ 18-- +ˢ +E JH F-mˢ SF#8 I # #@ ' ˢ ˢ # ,ˢ ˢ
ˢ !ˢ ˢ ˢ , ˢ !ˢ ; #J +# ˢ < + ˢ <8+ˢ G8 #8 -8-ˢ E8ˢ 8E ˢ 1#2# ˢ
22#ˢ <FEˢ 8# ˢ #<H8 m
#21ˢ A&J8ˢ 8ˢ 11ˢ 9 2ˢ / A, ˢ - <#8 -ˢ -ˢ ˢ ˢ , ˢ -ˢ
5 G G ˢ
#21ˢ !$88ˢ 8ˢ 1ˢ 9 2ˢ 8 ˢ ˢ ' !ˢ ˢ) ˢ ˢ ˢ ˢ ˢ !ˢ
F+ ˢ - + G8-ˢ <FEˢ #8 -8-ˢ & +# -ˢ 8 ˢ EHF +F ˢ 1#2#F ˢ 8JH# m
#21ˢ !&J8ˢ 8ˢ ##1ˢ 9 2ˢ ˢ 4 ˢ 2# 8+#F-ˢ 2 E8 -#-mˢ ˢ SF ˢ 2# 8+ˢ , ˢ
: F#8-ˢ) ˢ / G) !
#21ˢ !&J8ˢ 8ˢ # Z 9 2ˢ / # ˢ) ˢ) ˢ ˢ ˢ ˢ ˢ / , Gˢ
!ˢ G 2ˢ & 8-8+ #ˢ &# + # ##ˢ 1#2#F-ˢ 8E#ˢ #+-F # ˢ 8Xˢ +J -J# -8 ˢ
SF#8 I # f m 9 2ˢ ?
#21ˢ !&8 8ˢ ˢ : F#8-ˢ ˢ !ˢ ˢ - 4 ˢ #-ˢ >#- #+ ˢ ˢ Gˢ
ˢ ˢ 7 ˢ ˢ 7 !ˢ # ˢ #- +8 -#-ˢ E ˢ / 2 ˢ 1#2# ˢ
/ +JH822 GH# Y
#21ˢ !&8JJ 2#4ˢ 9 2ˢ ' # ˢ ˢ % #ˢ ˢ / ˢ 8Xˢ 0 J# -mˢ
+# F+ @ 7 , ˢ ˢ / A# ˢ +# F+
#21ˢ !&888ˢ .ˢ 9 2ˢ ˢ / !ˢ !ˢ !ˢ # 88 E#F ˢ 2F - J## #- mˢ : F#8-ˢ
/ #ˢ ˢ) ˢ #-ˢ / # ! V % , ˢ + ˢ ' ˢ ˢ 7 ˢ ˢ
7 !ˢ ; # 28 ˢ 8X<FG # ˢ 8 ˢ E#+8< # ˢ ! J+# # ˢ ! ˢ JH -#ˢ <8+ˢ / 2 0ˢ
F ˢ 1#2#F ˢ / +JH8#2 JH# m
)ˢ ?

A K ! ! ' / ʿ ! / `22 ! + ! !

!& J #K ʿ 9 2 ʿ ; ʿ 18+# ʿ > ʿ F ʿ / ʿ -ʿ ʿ % =ʿ
ʿ ʿ / ʿ -ʿ / !ʿ ʿ 8 ʿ ʿ ʿ ʿ ,SF#8 I 8+F f Y

!7 ʿ z.ʿ 9 # ʿ 7 ʿ * ʿ # ʿ 8 ʿ 7 ʿ / A ʿ / H J2#F-ʿ - 8 I c#ʿ
H +8 ʿ # ʿ 8 ʿ / H E#F-ʿ F ʿ -J+#< +mʿ SF#8 I # ʿ , Yʿ + ʿ ' ʿ #!ʿ
; , - ʿ ʿ ʿ ʿ ʿ ʿ , ʿ !ʿ ! J+# #F ʿ JH 8#ʿ FG 0ʿ
E8 -#-ʿ , F HYʿ +8JF<8+ F ʿ ʿ 8E ʿ 1#2# ʿ # #2#JF# ʿ +#ʿ <2# ʿ #- +# sʿ
L ʿ A7 ʿ # ʿ 9 ʿ +-ʿ ʿ ʿ A4 ʿ A# ʿ % ʿ ʿ # ʿ ʿ , Jʿ
+-ʿ 8E#ʿ 1#22#ʿ # 22#ʿ 8G#-ʿ 8 +##8ʿ EF ʿ 8#2F ʿ G8+8+8 ʿ # ʿ 2 # m@0
: F#8-ʿ ʿ !ʿ ' A# ʿ #-ʿ & , ʿ & , !

! 7 Jʿ # 4ʿ 9 ʿ 2 +-ʿ / ʿ ʿ 7 # ʿ # ʿ , !ʿ 8G#-ʿ 20ʿ
#3 mʿ ,AYʿ 7 A ʿ ʿ / A A ʿ ʿ # , ʿ " # ʿ / !ʿ / 82# #ʿ 1#2#F-ʿ
+# H #ʿ # 8 ʿ 8G F ʿ --82##8 m
4ʿ ! YJ Jʿ F#4ʿ 9 ʿ " ʿ ʿ / ʿ ʿ / ʿ # +# F+
4ʿ !& ʿ #U<4 9 ʿ ' ʿ # ʿ -ʿ 8 ʿ SF#8 I # ʿ , Y
^ 4ʿ !& 1ʿ U.ʿ 9 ʿ & ʿ 8 - ʿ ʿ 5 , ʿ _ʿ ʿ / # ʿ ʿ , ʿ
, ʿ _ ʿ ʿ ʿ wʿ ʿ ʿ ʿ ʿ # ʿ , !ʿ ; - # ʿ 8 J2# +#-8ʿ <8+ʿ
" 8 #28- ʿ 8 ʿ ! J+# #F ʿ G 22#ʿ 1+ J F ʿ ʿ 8#- ʿ 8 ʿ 8UF-ʿ E E# ʿ 8 ʿ <#-J <#ʿ
I 8 8 ʿ -F ʿ <8+JF--# 8ʿ G2 E# +F ʿ # ʿ 8 ʿ + +#F ʿ < --#ʿ -F mʿ ,BY
4ʿ !& 1ʿ !ʿ ' # , ʿ _ ʿ 8 ʿ ʿ # ʿ ʿ 5 , !ʿ % ʿ ' A Gʿ
ʿ ʿ A ʿ ʿ A ʿ / - ʿ + - ʿ ʿ # ʿ ʿ 5 , ʿ _ =ʿ
ʿ ʿ , ʿ , ʿ ʿ , ʿ # ʿ !ʿ 2 - 8+#F #ʿ G2# #28 -8 ʿ
c ʿ 8 ʿ - 8+#ʿ F #ʿ J <#ʿ +#-ʿ F 8 +## ʿ 8 ʿ 8 J2# +# ʿ I - ʿ ʿ
" 8 #2# F- ʿ 2 J2# ʿ - 8+#F ʿ 2+F #ʿ I - F ʿ ʿ G8 8ʿ 9 #2# ʿ ʿ ,hY ʿ 0
- 8+#F# ʿ -F2#8ʿ KJ8`#Gʿ I - F #ʿ ʿ " 8 #2# F- ʿ 8 ʿ G 2ʿ , -Yʿ EFJ F-ʿ
E8ʿ # ʿ J < # I # 8 ʿ E 8Jʿ ## ʿ 1 8ʿ <8+ʿ 8 - U
L 4ʿ !&1 ʿ !ʿ 9 2 ʿ : F#8-ʿ 7 A ʿ ʿ 7D 2 - ʿ #-ʿ ʿ wʿ & !Gʿ
, ʿ & , ʿ wʿ / # ʿ !ʿ 8 ʿ +J G# -ʿ G 8 mʿ 9

B Cʿ %'?4ʿ 55(2!ʿ 2 !ʿ @!ʿ , ʿ 4 ʿ (?ʿ (55!ʿ C Cʿ 5= !ʿ ʿ @!ʿ , , !ʿ =A ʿ <74 4ʿ . ʿ 4 ʿ ʿ G7 S
5'= !ʿ : '?!ʿ B , Cʿ =5<4 ʿ 55(2!ʿ 2 !ʿ (?ʿ (55!ʿ M!ʿ @!ʿ , , !
B?Cʿ 0 ' ;ʿ 48 ʿ (;ʿ . ' ((2ʿ 67ʿ . 78V= 2' '(57(ʿ %ʿ | (5 !42'= =5Cʿ =?' ; 4 1ʿ 49((') %'?4ʿ 55(2!ʿ 2 !ʿ
(?ʿ (55!ʿ , ʿ @!ʿ , !
B Cʿ %(8 ('=ʿ ; 5 ; 3= 'Aʿ 0 ' : 4 5' ; Aʿ 1 42'78ʿ 4<4 7 ʿ (?ʿ (55!ʿ , !ʿ 55(2!ʿ 2 !ʿ @!ʿ , !
B-Cʿ 7 ʿ =5(8 4 '7 1ʿ @ =@4ʿ ' ' : 2'5'7 5 ʿ w: ʿ 49 ' ' ʿ (5 '67' 78ʿ (2 (4ʿ 7'?' ; 7 1 ʿ ?4 ' (7 ʿ
(ʿ ʿ 1 = '8ʿ 4 ʿ ʿ 1 =57 1 45 7 1 ʿ 847ʿ (4 ʿ 2(@'?7 (!ʿ I '45ʿ = ; 4ʿ

!' ! / ! ! A_

+ ' !&J ' 92' / ' ') ' ' ') ' +# F+' | 2 ' '
' 2 # ' ' ' , ' ' !' ') # '_' J2XX4' % '
' / # ' ' ' ' T'_' / # '_' / # ' '
' ' # ' ' , ' !' ' ' + J' 1#2#F-'& 2E#' &8-# 0'
+F ' +# F+ @ $+-82#F ' + X' # ' F-J+# ' 8E# 8++ 8 ' F #' JJ#-#0' - '
2 E JH' 1#2#F-' &F 2 G#' 8 ' _ @ $+ 18 #' -F ' +J G#8 -8-' # 8+F ' # 8 '
JH## ' 8 ' +J 2 GE## ' 8 ' # + G##' F+JH8 -8-' F-SF8' F-J+# ' 8 ' 1 J ' 8- '
+ 2# -' <8+' 8 -' # 8+F m
+ ' 'U+1#' 92' +-' & T' #' # !' 8G#-' G8 # 8 m@ `J8`0'
' '+ ' '5 , ' 8X' +8G# #-' + m' +# F+
!# ' !&J ' C ' 92' ' ' '7 4 ' / ' ' / ,'_' '
' ; #J +# ' < + '<8+' $82# #F '1#22F ' +# H #' E8' JH 8 -# F-' 8 '
' # 22#- m' # ' SF ' J8J#E# ' ' ') !
+ ' !&J ' hF ' J`!' 5 ' ; F2 F-' + 28m') , ' ' #' # '
5 ' 8G#-' " 28 ##8 ' #' 8 ' I 22#-' 12F # #-0m
2 ' 3-11' F ' 5 ') 2 , , ' # '5 , !' ; F2 F-' +
28' &F E +8 c#' +8G#-' 1F F+#' " + 8 m
1' &J J' # ' ' ' ' '# ' '# , '_' ' ' !' #--0'
+# ' J#I# -' J 8#' ; - ' G8 #2# F- ' 8 ' JJ28-# ' 2 --## ' # 8 ' -+8 F# m'
@ +-' / , ' !' ' ' #- - ' !' 8G#-' JF-' 8 # 8 'H E#8'
9 #22 + 8 m@ +-') A ' !' % ' # ' / !' 8G#-' 0'
/ ! V / , ' ') ' '% ' 8X' 8 +#am' +# F+
' !& ' ' 92' # ' <-' ' SF#8I# ' +-' / ' '
8 ' # ' # !' 8G#-' G8 #a m' +-') ' ' + '
+#G`#' 8G#-' " + 8 m
+ ' !& ' ' ' 92' & ' !' % ' ' # ' 4 ' E# #E##' +8X'
2 ##8 m'
!&JJJ' KK' ' 92' 5 , '7 ' ' , , ' / # !' # 8 '
/ 82# #F-' # ' +J G#8 -8 m' 92
!&1 ' KK' ' ' ' ' ' ' ' ' / ' '8 '_' ' !'
' '% ' ' '7 ' !' / ' ' , '& ' ' ' '
7 ' ' ' '_' ' ' ' ' , , ' / !' J#2#F '
I#+ +F ' # 8+ #J8' <FE' 2F 18+ ' - 8+#F ' +8 E #' 8 ' # 22' 1#2#F-'
8E#' +8X' 8 +# 8' +# F F ' E8E# ' / 82# # ' 1#2# ' +# H #' 8 ' 8+ '<28 +#F-

,

8X # 8+ #w /82# # E#8 #- #E8 SF8 -8E# # H8E+ #- 2F 18+0 8 -#- m

^ #2 !& UK 1Z 92 / # / 8X J#wm # +# F+

^L W !& (92 7 - / 8 % G _ % _ 5 # # # # , _& , % - - !

/82# # I - I# E# #E#F -8< 8 +# 28 # 8+ #w E#J F # E# ##E#F # 2# # # F- - 8+# -8F J# I # #- #++8 -#- F-SF8 8 # +# 8 + F- 8- # 8 +# 8 " + 2 H# 1#2# F+JH E# 8G#- G8 #w J < JF # -F F228+8 1 F2 8 8 E+8JH JH 1#2# - 2EF# # JJ#-F- 8 # 8 +# m 2 !& **** 92 +-) { / # ! 8G#- JH +# m

%&JJJ ((((92 K ! 7 w 7 @ $ +#J## ; #J +# ##- 2 8+ ##2# JF # / + 8 JF# &# # # m , Y

3--- < 92 +- ' # ' ! 8G#- #E#w m

!&J J 92 * #) ! ! 7 ' ! 7 } , 5 , / _ / ! w K , G w , , ! wE8- & 2E# 1#22# / 2 ## <8+ 82-8JH 22F # / + 0 ## - +E JH F- J < F- " 8 #2# F- 8 2F 0 # +E 8 ! J+# #F $ +#J## J F1+ J F 8 # F# 8#- m ,AY

' / 92 ; / ! % , / , E , ! # # 1#2#F- \E# +8X 8# +#w EJ #8+-F- # " 22 # 8 12F I # SF E 8- <+ <8 +E JH # m , Y

A7J 4 92 I#2 1 X2 7 ! / EF+ #I# ,BY

!f 1 [92 * , ! / -& , & , # , # / ! # F# +8G F --82#w!] V / + G # , * , 5 2) ; ! $+w2#F ! J# 2I 8JH0

B C 7= 541@4 : : (48 ?1 (;3(5' ?4 67' : 78 '?4 55(2 Y2 ! (? (55! ! @! , @! , 4 Z @! M!) 4 . =1=5'A . 4 4 '?4 67A ?' ; (875 '5 B=24 =1 ! @! 92 4 55(2! 2 ! (? (5''! , , @! , 4 5= ! @! , ! : '' (55= Z! 55(2! 2 ! @! , Z!
B C %'?4 55(2! 2 ! (? (5''! @! , Z!
B C 55= A A ; =1 ! ! 55(2! 2 ! (55! - @! , Z!
B C %'?4 55(2! 2 (? (55! @! , Z!

! ' ! / ! !

' # ' G8 # ' G8- F ' ' 2JH + ' J + ' 2#8 *G8 - ' # ' SF ' JJ#- -'
8- ' & + +' 8- m' , Y' ? +-') # ' ') #' # ' 5' , !
!7, } ' 1 ' y4' #2!' +-' 7 W ' ' { ' # ') !
2' !7 ' UUU' 1# ' 9 20' : F#8-' / #' -' / G G !V e ' G'
' #-' ' + @ +-' / , ' # ' / # ' G'
!' 8G#-' # ++ G#w' UF J -w U
! ' nKU' # 1' 9 2' : F#8-' * , ' !' / ' '& , '&, ' w' '
/ !' #-' 28J8 -#- ' 8 ' 8G#-' --82#w m
+ .' !&* 1' nUn' # Z' 9 2' # ' !') # ' '# , ' # ' / !'
8 ' +8G F ' --82#w m' 7 ~ ' w') ' G , , ' '
8-' +E JH #m' E + #8+F##
+ .' nKn K.' 9 2' u# ? ' !') # u-' ' 1 Y### ' E + #I# V / # '
' ' ' ' # ' ' ; / # G !' G 2' 1#2#F-' 1#2##'
JH #' +8G F ' # 8 ' # ++ G#w0 F JH #w m@ +-' % ' #' !' '
' / , !' '
+ .') ' n ' 9 2' & - ' ' 7 ' -' ; ' ' ' '
u' ' ' ' + !' -' w' + +#F ' < -- -' 8- ' EF ' #+8 '
' JJ#-F-' ' ! X #- m
^!2 4') 8' ' 9 2' ## ' 18+ ' #X ' 2F ' / ' / ' ' ' / ' !'
+ , !' $+w2#F ' F2 E ' # ' SF ' JJ#-F-' 8- ' #F-' 1#2#F-' ! F# 8# m
+ .' !&JJ1' n ' # ' 9 2' ' # ' ') # ' '# , ' # ' / !' #
8 ' +8G F ' --82#w m@)) : F#8-' / ' #-' !
!&JJJ' Y ' %#Z' 9 2' +-' ' !' # ' / W# G !' # ' , '
' ' ' ' !' !' +-' 8E#' 1#2##' 8G#-' # ++ G#w0 F J +w @'
I 8-' <+wE +# ' 8 #F ' # 8+ # m'
^ 2yZ' 9 2' + # ' ' ' ' !' X8+J# F-' 82-8JH0
22#' J + ' # m@0 : F#8-' ' ' !' ' # ' #-' & , !'
/ ' !' ' # ' , !' 9 8 8 HF-' 1#2#F-' 2<# #' 1# ' +8X' 2 #w m

, Y' : Fw' -8SFF 2F+ ' #-- ' # ' < G# ' <+wJ8E8 8' +8- # F8 E ' -F ' < -' F # CAL@
K ') ! 9 2' * # ') G] ' ' ' ' ') , ' , ' %!' !' # ' 3' ; - # ' +J#-'
66 -J@,H E#8') ' / (' F # JJ#-F-' 8- ' 8E' 1#2#F-' &F E J+#J2##' -' #+E G2 --8 -#- Q'
&8# E8' SF F +' # SF#' -8SFF 8+' # ' < G# ' #- ' F 8+ E#' -F ' C C A C C B@
#' 28-' w+ ' J F 8 ' 8I8+ F ' ' X# I ' -#' -' 9 2' -<8J F- 0' F-SF8' E' ' mCm'
J I8 #8 8 ' JF ' w+w' J + ' LA ' < - 8 ' EFw' w' 9 2' #-' -8SF8 # F-' EUF G8 E- ' -F '
F ' E#118+8 # ' ' B' F #SF8' -8+I8 F+'
'

! ! ! !

!7 #V 92 +- ' # !) # / ! TG#- -0
-82#w m V / , !) # /*E , ' ,
' , n; # #
! 8+ 22 1#2#F- &F G 22# JF # #8 -# F- 822#G8+ # +8G# # F-
' # 22 +F 18- + # # E 18- F E+8w F-SF8 # 8 /F E E 8J
-#E8- ETE#--8 !8< 8 +# 28- 8# m
!&J J #1 92 !) , , # ,! # 5 , ! # 8
+8G F " +w m
w= + 3--- . J [1 92 / ' # # , # / @
8 +8G F --82#w m +-) # , 8G#-
2 #w m , 2Y
!&JJJ + F Z 92 +- ' ' !
!&1 92 : F#8-) , , _ / # @ : F#8-
& !
)# 7 vZ 92 +- / { / # / , !
8G#- +J -J #w m
!& 1 V #4 92 5 92 J2#<-#- ! 22- H J m,AY
+- % # !) # # ! 8G#- G8 #w m
L2 !& J1 # ## 92 % ; / ; 8 ,
8 d # ! + + 8- I - 2F 0
18+ +8 E # # F 8F JJ#E#--8 +8 E F- 8+ # E#8 < - SF
+8E##--8 # -F - + s
e 2 1 !&J V #y 9 92 7 , _ ' @
-#E# - # I -# #-- +#w <8+ 2 1F 8 + +8- I# 28 8+ + < ## E8 s
Z !Y V 92 / - / ! +# F+) , 8
#++8 -#-m - <#8 - SF#8 I# / $+w2#F # 8+s 7 / #
_ ! # SF JJ#E# 7 ! / #!
Z A&J 4 92 ') # ! ' # # ! 8G#-
G8 #w s
!& V 92 : F#8- + !F +28JH# E8 I # m #-
/ & !

BCC 55(2! 2 ! (? (55! ? ' 2 A A ;= (! 2 , @! , , -!*
B C 2'(54 ;2'@8' (4<4 75 55(248 2 ! (? (55! - A (;=1 ! x - 4 4; 4 7 '5 5= , ' : ! @U
, , Z 75?4 8467' 7 3=8 55(248 A (1 ;=1 1 7541 (5 4 4 4 4 7 !

!ˢ ! / ! !

4 !Y1, ˢ*ˢ 2#*4ˢ 92ˢ : F#8-ˢ ˢ ˢ 2) # ˢ #-ˢ / G ˢ wˢ
/ ˢ / ## !ˢ ?

' .ˢ 3---ˢ ˢ(%#1ˢ 92ˢ / 1 ˢ ˢ ' # # ˢ -ˢ & , ˢ wˢ ˢ
/ ˢ 8 ˢ 8Xˢ --82#-8 mˢ 7 ˢ -ˢ / ˢ ˢ ˢ E + #8+F
) £ !&J ˢ ˢ K ˢ 92ˢ 7 , ˢ !ˢ ˢ / ˢ 1#2#F-ˢ 8G#-ˢ +J 0ˢ
+ 8 -#-mˢ # +# F+! V & ˢ / ˢ ˢ) ˢ !ˢ) , , ˢ ˢ / ˢ
; - # ˢ J#-8ˢ <8+ˢ 8G8 ˢ " --82#1J!] V 8 ˢ ˢ B67(8?(1ˢ ?4875 3';!C
/ / /ˢ ˢ1 ˢ 92ˢ ###ˢ 18+ˢ nw& !ˢ 7 ,# ˢ ˢ; ˢSF#8 I #ˢ# ˢ >< ˢ
!&JJJˢ & ˢ#£ 92ˢ ' ˢ !ˢ 8 ˢ ˢ # ˢ ˢ ˢ ˢ ˢ ˢ
,ˢ ˢ 4 !ˢ * ˢ % ˢ ˢ # !ˢ ! 8Xˢ G8##U#8ˢ I - ˢ ' # 22 -ˢ F-SF8ˢ
Eˢ # 8 ˢ / F Eˢ F E# 8ˢ 2 #F8 -8-ˢ H # 8 m,UY

) 4 !&JJ#ˢ 2 ˢ## ˢ 92ˢ %& ' ˢ , ˢ ˢ 8 ˢ ˢ #!ˢ : F#8-ˢ U 0ˢ
ˢ #-ˢ / V &e!

ˢ 3---ˢ k ˢ ˢ 92ˢ +-ˢ / # ˢ ˢ ˢ # ˢ / # ˢ ˢ
8G#-ˢ # ++ G#-8ˢ F JH+ # m

!& ˢ(f 4 92ˢ ' ˢ # % -!ˢ [# ˢ% f !]ˢ
' .ˢ A& ˢ#<ˢ (ªˢ 92ˢ : F#8-ˢ 7 ˢ ˢ ; ˢ / !ˢ / !ˢ #-ˢ U -ˢ
2F G8ˢ JJ28-# +F m

ˢ !&J ˢ ˢ 4 92ˢ : F#8-ˢ ˢ ˢ ˢ <#-J <#ˢ _ˢ ˢ ˢ !
8 ˢ JH +8 #ˢ # 8+ #G8 m

ˢ !&1 ˢ#Y$ # #1ˢ 92ˢ : F#8-ˢ # ˢ ˢ 7 # i ˢ H #-ˢ & , ˢ &, !ˢ
: F#8-ˢ 7 ˢ ˢ / ˢ #-ˢ + !

Z !& ˢ($ ˢ 92ˢ ˢ ˢ ˢ !ˢ ˢ & !ˢ # F- # ˢ #--0ˢ
+# 8ˢ <8+ˢ 1#2# -ˢ +#m@ : F#8-ˢ / ˢ #-ˢ .

4 !Y ˢ* Zˢ 92ˢ +-ˢ 8 ˢ ˢ ' # ˢ # ˢ # ˢ 8G#-ˢ
G8 # - m

8 .ˢ !&JJˢ # U+ˢ 9(ˢ +-ˢ ' !ˢ ˢ # ˢ 8 !ˢ F+8 H#ˢ 1#2##ˢ 8G#-ˢ m
ˢ + ˢ ˢ #£ 92ˢ +-ˢ ˢ ˢ ˢ ˢ # ˢ 4 !ˢ 1#2##ˢ 8E#ˢ
8G#-ˢ 2 ### ^ mˢ ˢ % # ˢ) G% ˢ ˢ -ˢ ˢ X<FG # ˢ +J#-ˢ #E#**ˢ
ˢ +8G# 8ˢ + E m

!& 4 # #4ˢ 92ˢ e ˢ ! V ˢ ˢ ˢ ˢ ˢ /

, Yˢ &8ˢ FE*-ˢ 2 # 8 -# F-ˢ I#E8ˢ 2ˢ 2 ˢ Eˢ ˢ_ K ˢ_AA ˢ__ ˢC ˢCAK C ˢC_A C_. ˢ3C_ˢ
CL_ L . ˢ Kˢ A ˢ 18+ˢ -ˢB.B ˢBK2 ˢ . ._ ˢ. .L ˢ.KB ˢ ˢB ˢ 8 ˢ #GT # JH#ˢ c F 4ˢ
+8+ ˢ Eˢ ˢ L ˢJF ˢ E#J# F-ˢ Eˢ <+ 28G 8 ˢ8 ˢ <#- ˢ F JF<

! ! ! !

- _ ! $8+8G+# - 8 # # 8+ # 8

- F # -F +E# # 8- < ## - 8 8 m , Y : F#8- / G

& , ! &, ! J 8 H I## #- 28J8 -#- -0

8+## +# m

) 4 U& JJ mm # 4 92 +- / ,) # # * # ! 8G#-

-- +##8m@ ; +- ; / , . # / ! 8G#- J#a m

: F#8- ' , / #- !

!&JJ # Z 9#0 ,) , ' # # / _

% # ! / , # / ! 8J G # # &F 2 JH ## 1#2## 820

GF 2## # 8G8 --82# 8 8 H E8# 1#2## J +# # 8G8 J#a m

U& 1 #U #e #Z 92! f f f # / G +- f G #

1#2## 8 1 82 E##m #- & , - &, ! +- & - !

/ !@ 8G#- # ++ G#11#0 F JH+a m

!&1 "" # 92 +- 5 ' # 5

8G#- " 28 JH m@ : F#8- 7 - ' #- ; / ,

/ ! ' G / # , / 8 # 8 #

2F 18+ a +8 E # m

21 !& #U U ## 92 : F#8- ' , # #- / G = !

!F4 !&J &"U . 92 : F#8- ' <- !V 5

, ! ! " 8 #28- # I EF # 8+ # H J m ,AY

nnn. 92) ! / , # , # * # ! # 8

+8G F -- +#a m@ : F# - #_ WP 8#J 7 , #- !V ' G

, # , @) 82 +#GE -FJJ8E# # # < - 8 m

) Z !&J 92 +-) , - ' # #' / ! : F#8-

' / , , ! % # W / 8 !

#& # Y# 92 +- ' ' # / !

8G#- JJ#E8 2#- J#a m ' + +#F m ' #-

/ G G ! 5 7 - 7 !

/ # ## # , # / ! ; F2 F- 28 H 28 / 2 # 1#2## # 8G##

< 8 a # 8+ #a <8+ / H E# - , Y@0 8 G8GG # 8 +8G F --82#a m

!&JJJ ## 92 e" / 7 # , , !

B2C %'?4 55(2! 2 ! (? (55! @! , Z! B,C %'?4 55(2! 2 ! (? (55! M !

B C 9 (5 37G78 2(55" 1 4 ';(' 4 3L : 1 ';(' '5 =?';4 (55= 7 1 @27867(1 ;7" ' 7278

'5 ' : 2'= 34;(' =V4584 =! % ! %'?4 55(2! 2 ! (? (55! M-!

!ʿ 0 ! / ! !

/ G ' ʿ ʿ # , ʿ # ʿ ʿ ʿ) ʿ ʿ ' , ʿ , ʿ
!ʿ + JF-ʿ 2 FE #2#-ʿ # 8 ʿ +8G F ʿ &8-# +F ʿ 8 ʿ 82 8 JH H ʿ
JJ#-F-ʿ 8- ʿ ʿ 8 m
&K&&U # 4ʿ 9 2 ʿ +-ʿ 7 ʿ h ʿ / ʿ ʿ / , !ʿ
8G#-ʿ +J -J# ##8 m V ʿ !ʿ / ʿ # ʿ f ʿ ʿ 8 I 8J F-ʿ E
+8G F ʿ < - ʿ 8F mʿ «
) 2 £ (Z 9 2 ʿ : F#8-ʿ ' ʿ ʿ / ʿ J " ʿ & ,
& , ʿ _ ʿ 7 ʿ ʿ / ʿ ʿ # , ʿ , , ʿ ʿ !ʿ 8 ʿ / 2 ʿ 1#2#F-ʿ 22#
8 ʿ # ʿ < - ʿ 8F # U
I! .G ʿ " " "ʿ H#Z 9 2 ʿ : F#8-ʿ % #ʿ ʿ / , ʿ ʿ / ʿ ʿ G
ʿ ʿ -ʿ ʿ ʿ / !ʿ # F-ʿ H E8# 1#2## J +# 8G#-ʿ 0
J#W ʿ < - SF ʿ U8G+ --8 ʿ SF E ʿ 8 < +8 ʿ # ʿ # + # m +-ʿ) G
8G#-ʿ 2 #-8 m, 2Y e ʿ 7 # ʿ ʿ ʿ ' ʿ ʿ
/ . G !ʿ / # GF# # JH +8 -ʿ # +F ʿ <FE 2F J #- m
Z !& ʿ #U+ ʿ H#Z 9 2 ʿ : F#8-ʿ ' , # ʿ ʿ 8 !ʿ #-ʿ & G / #!
* ## ʿ ' G ʿ # ʿ % - ʿ / ʿ ! / - ʿ ʿ
ʿ ʿ _ ʿ ʿ ʿ # ʿ # , ʿ # ʿ / !ʿ E8-ʿ ; 82+F E## 1F F+#
8G#-ʿ 8 +# G ʿ + JF-ʿ 1#2#F-ʿ F28 # I 8 8+ #2#-ʿ <#-J <F- ʿ 8 ʿ I# 8
J - # # ʿ J2 +F- ʿ # 8 ʿ +8G F ʿ --82#W m@ 9 2 ʿ 0
^ Z !&JJ ʿ #U+U+U# #U+ ʿ 9 2 ʿ * ## ʿ / # ## ʿ # ʿ / ʿ ʿ / ʿ / H ʿ
/ @ # ʿ 8 ʿ E8-ʿ # EG8GG # 8G#-ʿ --82# ʿ <8+ʿ J2#8 82 ʿ 22# +F ʿ
--8228 -#F
!&JJJ Z 9 2 ʿ e ʿ 7 ʿ ʿ / ʿ f h ʿ & , ʿ & , ! : F#8-
; ʿ ʿ / ʿ -8<H# JF-ʿ mʿ #-ʿ / ʿ ʿ !
^ ʿ !& 8 ʿ ʿ # ʿ 9 2 ʿ 8 , ʿ ʿ ʿ ʿ ʿ ʿ w ʿ ʿ ʿ ʿ ʿ
7 w ʿ , , w
ʿ ʿ ! + +# I 8 #F ʿ + -ʿ +8 ++H8 F ʿ 8 ʿ + -ʿ # ʿ +# ʿ
-# #2# 8+ʿ # 8+ I 8 #8 # ʿ ʿ +8G# # F-ʿ +#8 2# F-ʿ F E# ʿ 8 ʿ I - ʿ 2# ʿ
8 ʿ ʿ JF ʿ 8SF#- ʿ 8 ʿ JF++# F-ʿ -8JF ʿ 8 ʿ H -2#2# F-ʿ 2##-ʿ JF ʿ 8#- m
£ ; ʿ . ʿ J !ʿ +-ʿ / ʿ ʿ , ʿ ʿ 5 , ʿ 8G#-ʿ " + 8 m
8 ʿ ʿ ʿ ʿ ʿ , ʿ ʿ , ! ʿ # ʿ ʿ !" - , ʿ ʿ ʿ ʿ
" ʿ ʿ ʿ ʿ # ʿ ʿ ʿ ʿ ʿ " ʿ ʿ ʿ ʿ # ʿ ʿ # ʿ ! ʿ

B C (?41ʿ 3(:45 ʿ %ʿ + -K # ʿ (?ʿ (55 ʿ Xr ʿ 2 =5'45848ʿ (?ʿ MM ʿ 67" (55' ʿ G79 (ʿ 7 =8674 ʿ ;=5&
45'75 ʿ ;71ʿ (55= (~ (8 ;=1 !ʿ WQQ

! ! / ! !

' ' ! $#-J#-' E#J F-' 8 'U JF# ' 8U8J F-' -F<+ ' 2# F-' 2 #a' '
H J^' EF E8J# ' <8EF ' -F<+ ' ! 8UF-' 2 G# FE ' -8XE8J# ' 2 G# FE ' 8UF-'
J#+JF 18+8 # ^' -8X' <8EF ' 8+ ' 2 G# FE ' E#G# #' 8UF-' <# a ' 8 ' -8X' 2 G# FE '
8UF-' + - +#' 2 F-' 8+ ' <8+' I8 +8 ' I82' -F ' +F J ' J +< +#- m' , Y
e 2 ' !&J ' U ' ' 9 ' * #! ' ' ' ' ' ' # # ' w '
' ' ' ' , ' ' , ' ' / ' ' / ' 7 - ' _'
2' 2 #' / ! ! 7 , ' '# , ' # ' / ! + # ' ' G'
' ' / ' ' / '_' ' 7 , ' ! ' & ' # '
/ " ' /* ' '# ' ' '_' ' ' ' ' E ' ' # ' '
' ' ' ' ' / ! ' ' , ' '_' J ! ' ' !
E8' EX' , ' ! ' ' ' '_' ! * ' ; ' ! ' ' / ' #'
/ ' ' , ' ' / ' ! ' ' ' ! n&8I - # ' JF-' # <8+'
#8 -8-' F-SF8' <2 # #8 ' # G' F ' F-SF8' <2 # #8 ' 8 ' F # JJ#-F-'
8- ' 82J+ #F-' 1#2#F-' H 2 # 8X' J2#8 82 8' / # JH+ JH ' 8 ' 2## F2 # ' 82-F-'
##2#F-' / 2 H8+ JH# # 8 ' +8G F ' +J + 8 ' X8+J# F-' # #8 -#-' JF '
+ J ' 1#2# ' F28 # ' 8 ' JF ' / 2 H8+ JH ' 1#2# ' + # # 8 J# # F-SF8' <2 # #8 '
F++8' 8 ' - F28+F ' -#E8-' ' # 22 +F ' 8 ' #8+F ' < - 8 ' # 8E# 8' F-SF8'
<2 # #8 ' ' 8 ' - F28 ' +# F ' ' JH 8 -# F-' 28' G F '
,& # #Y' #<-#-' <+ 1#J#-J8 # F- ' 8 ' 9 28 E#8' F +#a' +8E8F # F- ' F E8' E#X#
B 1 7 ''((' 875 ' 67(4 846777 7 C ' J F G# ' EFJJ-' 1F8#'J JF
+ J ' 8G8' --82#a' <FE' 2F J #-' # ' 18- ' 2#-' #- #F-
!& ' ' 9 2 ' I# ' 18+# ' XX# I ' 2F ' ,AY' / ' # ' , ' ' # '
_' ,' ' ' ' $+a2#F ' <#' 2 8#' G8- F ' ' G8 #8 -# F-'
8 ' ' # 22#-' J + ' #8 -8- m' # ' SF ' J8J#E# ' / ' ' / - ' '
/ ' 8X' --82#a m' _' / ' ' / , ' ' * # ' 8X' -- +#a m' F E8'
E#X# ' - <#8 -@

' , ' ' ' , V '# ' / !
L' / ' E2 ' / ! V ' # ,' ,' , !>
G# ' # -F<+ ' G# -@ ' ' H+#- ' J <# 8' -F 2# #F '
E' J11#E8 ' + 8#' E#28J #@# ' J <#-' - X -#-' 2 8# ' , Y
4 &JJ1 ' 4 9 2 ' +-' / , ' ! ' ' ' # ' 8G#-' G8 #a m

B C' =5<4 ' 55(2!' 2 ! (?' (55!' M ' 4 ' %' + - # ' (?' (55!' Z!
B , C' 5578' 48 ' (4 84' ; = 1 ! M ' 7 ' '5' 55(2!' =5!

! ! / ! ! .

+- / H " / / # 8G#- # ++ G# U U #8 - f H E#8 J T! 92 @

##(92 8 - # ,) _

! # , f # ! JF2F <8+8G # JJ#<# & 2J2F- 1#2#F- 8E# +8X 2#JH#a 8 # 2 1#2#F- 8E# # 8 +8G##F < - 8F+ m

!* 21 !&JJ1 * 1#*#* 92 : F#8- ' , # ' " X) #- !

!& " ". 9* : F#8- % ' #- & , &, !

: F#8- % % Ef +JH#< 8 e # 8+ #*8m@

: F#8- ' ! / #-

!&J 11 92 7 h , & # , # / f! #

8 +8G F --82# 8m ! + # , , & &, !

8 # 28J8 -8 +# m 92

7 (9 +- 7 ' # 8G*- #0

8+ #) m V 5 5 , # 5 , 5 , ! V !

, # % ! ; F2 F- # + 28 " 8 8 J # 1#2## 8E# 8G#- " 0

+ 8 <8+ 2#8 *G8 - @ # 22 1#2#F-) 8E# # 8 +8G F 8 +# 8m@ : F#8-

#- / G7 8

1 !& J ((92 5 / 5 , w ; ' # 7

F2) / / 5 8 , w ,

, ! ! ! + G8- 2#8 #G8 +F <8+ 22# - " + - 8

<8+ I#+ - J <# / 8 # +F# <FE +J8# #- G # # 8 _ 2#8 #G8

JJ#-# + 2# - G + 8 +F 8 I 2FJ+F # F < FE# 1F8+#

I X 8+F2 8 F F+E# H J m@ 92

!&1 J*7Z 92 +- / ! 7 , / 8G*-

+JF +F8 -#- m V 8 _ # ! / -

+ - &

5 , w 0 !

4 w ' - 7 ! 8 # w / # !

7 # % w 2 2 # ' + !

F- 8G8- #- 8 1 #- @$+ 82#F &F 2# #8 -8 SF E < + F 8- E8

8+ #- <8+ ; F2<8 2 + # 8 ! # +#JF 8< 8 +# # SF JJ#-#

-F #28- -8< 8 +# 2#- # 8+ # 8 -# F2 JF # 22 " 2F EF # 1#2#

8E# 8G8 # 8+ # 8 8 JF 8E 1#2# JH J # 8G8 > 2 # - 8 JF

B C 0;4; 4<4 75 %' + - # (? (55 M 55(248 2 ! (? M Z '?4=674 (1 := (? (55! A A ;=5T

M ! %'?4 55(2! 2 ! @! , 5= !

K !' ! / ! !

(82 # H#J ' 1#2# ' /2 J # 8G8 I#+ +F ' +8G# -' 8 'JF ' G# ' 1#2# ' /2 # 1F F+ ' 8G8 8 +# -' 8 ' 2##-' F2 #- ,2Y $ +I ' $ -J#2 ' #'8' & # #J ' # ' 2 #-' # ' [- #I ' 8 < +8 m

!&JJJ **1# 92' ' ' / ' -' / ' I7-' _' + ' '_' ' / f ' ' '_' ' ' ') '_' ' ' ' ' ' ' ' ; '7 ' !' 5 i f ' ' ' '7 ' ' / !' 8 !' + #+#F ' + # J# 1#2## F28 # <#-J <# 8 ' * E# F# #-- +8 -#-'? 8 ' #-' JJ28-#a' 2 --##' 8 ' 8G#-' &8-# +F ' 8 ' -F<+8 # $+)8< -# # <8+F ' #-8+#J +E# e' # 8 -# #2# 8+' <8+' / H E# -' JJ#-# ,AY@ ; F2 F- + 28' F+J2# E# 1#22# /2 # 8G#-' +J -J# # 8 m

) ' !&J 1' #(' 92' +-' 8 ## ' ' ' '- ' / ' 8G#-' +0' +8 +F m@ +-') ' !' 7 - -' # ' ' ' '# i f ' ' ' , G' ' 2 r' ') ' !' 7 ' 5 , ' '& ' '# , ' !' +-' & 2E# 1#2## /2 # 1F F+# 8G#-' # 8+ # 8 IF2 8+ # + 2# 8+' ' -F ' 1+ +8' #'8' '& JH E '1#2# ' /2 # @ " 1+8EF-' 8< -' +# # 8 ' &F 0' 2# #F m

!& #(' 92' e ' / ' !' ' <#-J <# / '8 !' % ' '8 # '; ' '5 ,' ' '_' ' ' ' ' '; ' / '_' ' 'w' ' ' ' / G G !'_' ' ' ' ' ' ' #' ' ' ' w' ' ' # ' ' !' + +' 1#2#F-' 2G## 8-' 1F# ' 2#8 #G8 +F ' <FE' # 8+#JF '8 '#I# '8 ' I - I# ' -F2 ' 82 + '8 ' FJ# #-'8 'J F--#' 2F J #-'8 '<+ 18J F-' -F<+ '2 JF # #GH ' I - I# ' 8-' 8UF-' -F2 -' 8 'I - I8+F ' #E# m

!&P '#J ' 92' : F#8-' ' , ' A A ' ' ' ' E J # # 8+0' 8 -#- m' +-' ' A ' !' / , ' # ' / ' 1F F+# 8G#-' J 8 m040 +-' ' ' ' / ' # ~ ' ' / ' 1F F+# 8G#-' F- + 2#-' J# ^ , Ym

B C' 0=;'@ A2'71' 4<4 7 '5' 55(2!' 2 !'(?' (55!' M ' A A' ;= 5!' M M' 4 ' 4; 4!) %' + - 1# ! 4<4 75 '(?' (55!' M ZT' ?'4' ' ; =:!) (4 ' . 4 '8' 0 ':y 5'A ' '5' 3=;' @ A2'=' =; ;'8'' <7' (421 ('('<'2'(' / ' ' ! % ' . 4 '8' 2:(5'A!) (' ;' + - #

B,C' =5' 48 ' ;=5<75?45?78' ;71' (2'=' # '1 ' ' . 4 4' = 5=5'A ' =; ;'8=' (55=' M ' ' 87@ (' @!' - ' 5= !' 2!) 4' 3=;' = 1 (;=' (75 ' 55(248' 2 =5!' (?' (55!' M MT' T ^' ;=1 !' M , ' 75?4' 8467' 7 ' 55(248' 3=8' 5'8<(245848' (1' '8 (1' (5 4;4?4 4T' 5 '?'9' ' '9 !

B C' 55'8' HF#J' -F -8SF8 # F-' F-SF8' E' ' LLL ' F 8+# EF ' EE8[E# -F ' ' +E ' JH + J 8+F ' 9 ' 4; 4' -8+I8 F+' F-' F 8 ' #-' LLL 'UFX ' -8+#8 ' 2# 8+ +F+ ' 9 ' F-' 8- ' '8 ' +8I8+ ' F-' A A' J ' Z!

! ˢ ! / ! f

ˢ !&JJJ ˢ *2* 4ˢ 9 2 ˢ 5 , -ˢ ˢ & ˢ ˢ ˢ ˢ # , ˢ # ˢ
$ ˢ ˢ !ˢ & 8ˢ ˢ ˢ !ˢ " E1+8J2F-ˢ 8< -ˢ +#ˢ I#G #ˢ
+8ˢ JJ#E8 28 ˢ JJ#E8 8 ˢ I8+-F- ˢ 8 ˢ # 8 ˢ -#E8-ˢ F- + 2#-ˢ # 8+ #*8^ˢ
E8ˢ <8+ˢ +8ˢ F-SF8ˢ --# #ˢ <8+8G+# +F sˢ ' ˢ !ˢ) ˢ
-ˢ ' -ˢ ; 8 ˢ _ˢ G , , ˢ ˢ -ˢ - 8+#) ˢ
F 8 -#-ˢ 8 ˢ - cJF-ˢ - ˢ # ˢ 8 ˢ #ˢ <+ X# F- ˢ +E JH F-sSF#0ˢ
8 I # ˢ , Y
;; ˢ ˢ # !ˢ +-ˢ / ˢ ˢ / , A ˢ # ˢ / !ˢ 8G#-ˢ
8#+8 ˢ +-ˢ) , # 4ˢ !ˢ ˢ #ˢ & A ˢ) G#-ˢ 2 #-8 mˢ : F#8-ˢ
/ ˢ ˢ , ˢ * ˢ ˢ !ˢ +J #< 8 #8ˢ -8Fˢ <+ 18-- +#-ˢ <+ 8Jc<F1ˢ
+ #-ˢ < T #J -ˢ # 8+ # - m
ˢ !&1 ˢ ˢ 9 2 ˢ : F#8-ˢ / ˢ -ˢ ˢ #-ˢ / G G ˢ _ ˢ / k
1 G& V # ˢ K G ## ˢ ˢ ˢ # , ˢ ˢ Y ˢ 5 !ˢ I 8-0ˢ
P 8+1 +E#-8ˢ J#+JF # I #G ˢ 8++ # ˢ E 88ˢ <8+I 8 8+8ˢ Eˢ 2 JF ˢ " #+ m
ˢ A& ˢ ˢ 9 2 ˢ : F#8-ˢ ' , A# ˢ !ˢ % ˢ #-ˢ ˢ _ˢ
#-ˢ ˢ / !ˢ / 4ˢ 8ˢ 2F -ˢ 8J28-c +F) @ "ˢ ˢ 5 ˢ K Gˢ
ˢ ˢ ˢ ˢ ' ˢ ˢ ˢ ' ˢ _ˢ ˢ 5 ˢ ˢ ! + G8-ˢ 2#0ˢ
8 #G8 +F ˢ P 8+1 +E# 8ˢ <FEˢ JJ28-# ˢ J2#8 2 J# ˢ <8+ˢ I #+ -ˢ # 8ˢ
8 ˢ 8 #G8 -ˢ) # 8+#J# m@ : F#8-ˢ ' 4 # ˢ , ˢ / ˢ <#-J <#ˢ % Gˢ
ˢ #*8 m
'!ˢ ;;;;ˢ L 'J 9 2 ˢ +-ˢ ' ˢ# ˢ # ˢ ' A ˢ 1#2# -ˢ 82-8JH0ˢ
22# m@ 7 ˢ -ˢ / A# ˢ SF#8 I # ˢ ˢ > <
ˢ !&JJJ ˢ L ' ' !ˢ 9 2 ˢ 7 ˢ ˢ # ˢ ˢ ˢ ˢ ˢ \ˢ Gˢ
/ # ˢ ˢ _ˢ ˢ ˢ ' ˢ S @ e A ˢ % ˢ ˢ Gˢ
ˢ ˢ / !ˢ / # 8J2# ˢ 1#2#F-ˢ 8G +##ˢ <+# J#<FF-0 JH +8 ˢ # 8+ # 8 ˢ
8 ˢ 8Xˢ # ++ G#J8ˢ UF J - -ˢ H Ec8ˢ 9 8++ ˢ 8 ˢ $+ -< -# F-ˢ <8+F ˢ #-8+#J +E# -ˢ)
^ˢ SF#8 I # @ : F#8-ˢ F H 2##ˢ - <#8 #-ˢ <#-J <#ˢ E# #E##ˢ # 8+ # - 0ˢ
E#J #ˢ E# ###2#F ˢ #ˢ J8 F ˢ <+ 82# +F m
g))(3----ˢ L R!ˢ 9 2 ˢ # ˢ ˢ 5 ˢ ˢ ˢ Y ˢ 8 ˢ ˢ * Gˢ
ˢ _ ˢ) ˢ 7 ˢ ˢ * # ˢ ˢ # ˢ , !ˢ - + ˢ 2#8 #G8 +F 4

8 ˢ Cˢ 4ˢ =5(8 4 ' =ˢ 24584ˢ '?4ˢ =24 = 1 ! ˢ @!ˢ 999' ' ˢ 4 ˢ 55(2!ˢ 2 !ˢ (?ˢ (55! ˢ 8 ˢ @!ˢ ' ˢ ' : ˢ 4 (ˢ
4 ; 45845'7 ˢ 67Aˢ 5'8<(245848ˢ 3 (: 45 ˢ (?ˢ (55! 3754ˢ M !) ' =ˢ 5='5'5'8ˢ (ˢ 6 ˢ <'2'=ˢ =7(ˢ ?4 ' &ˢ
(5?(ˢ 48 ! 55(2!ˢ 2 ! (?ˢ (55!ˢ ˢ 8 ' ˢ 4 ˢ 8 ' 8

.C ! (! / ! !

8+#J# <FE 2 JF 8 H+ JH # -- +# 8 + < / 8+ 8 -#- # -- +#
8X<FG 8#- m

!& Z 92 I [1 #X : F#8- % ! ; #- / !G G

) F & (a 922; +- * # ! # !

##&JJ 1 U+ *i ! +- / / #* # 8G#- -- +# 8 m@
: F#J- * , #- G !

<JJJ * i 92 : F#8- , % G5 1 _
U ! #- - 8+## J 22#- - 2# - 8 8G#- & 2J --# 8 m0@ : ###8-
4 # # , G , `a` # ; #F 8J2# # 18 ### 8 < 8
2# 8+ J -#- m) ! / # , # * # ! # 8 +8G0
F -- +##8 U

22 !&JJJ1 n 92 : F#8- #- & , & , !

Z !&J 11 _ 92 : F#8- ; #- w ! # , G
! ! 8 82< +#J#F- # 8 < - 8 # # m@ +-
#0 # / , 8G#- +8< + 8 -#- m

!&J 1 U$ 92 +- 7 # / # # 8G#- 2#J #11# m
m +- / # ! _ J8 8+ +F # @ ; 8++ F- G F-

!& nn . 92 : F#8- / ! W+ #- !

! & JJ (((Z 92 : F#8- ! #- !

!&J ((Z 9 +- & / ! + 2E# 80#
< #- # +# JJ#-# J2# 8 -# F- m

! & J JJ 0 92) / G / / G
! /) _ ! ! + G8- & 8-# +F <8+
8228JH F 8G8 --8 -8 # SF J8J#E# 828J 1#2#F- + J# 8X
&8-# +F 8 J F G# JF 8 m

!& (92 : F#8- + #- & , & , !
& , & , ! 82J --#2 $+ 18-- + + #F 2# 8+0
2#F 28J8 -#- - 8+## +# SF#8 I # # ><

3--- 2 92 ! #
5 ! 7 # 5 ! n + +#F
F+J8+ JH# 1#2## # 22# 1F F+# 8G#- # 8+ #-8 <8+ " 8 #28- + +#F
+J # 1#2## / 82 # 8G#- G8 #W <8+ " 8 #28- m

!& J J ## 92 : F#8- 7 , & ! +-) G

! i ! ' /ˢ /] ! ' / /(F =

ˢ !ˢ K ˢ _ˢ / ˢ ˢ ˢ 8 ˢ #ˢ 8UF-ˢ 1#*## m@ * # ˢ ˢ
ˢ ,ˢ ˢ & #!ˢ ; - # ˢ &FH## ##ˢ <8+ˢ ' # 22 -ˢ 8 ˢ G8 #8 -8- mˢ
)* 4ˢ 3 - - -ˢ U4 9 2ˢ +-ˢ ' ˢ ˢ ˢ ˢ 8 !ˢ 8G#-ˢ 6 +# ## 0ˢ
+F m
*222Zˢ !& ˢ 9 2ˢ : F#8-ˢ) , ˢ / G ˢ 8 !
3- - -ˢ U U ˢ jˢ 9 ˢ) ˢ ˢ ˢ ˢ ˢ ˢ & , ˢ &, ˢ _ˢ ˢ ˢ
ˢ , ˢ ˢ ˢ ,ˢ _ˢ # ˢ ˢ ˢ ˢ, ˢ ˢ _ˢ 8 ˢ ˢ
5 ˢ ˢ , !ˢ $2F I# ˢ 8ˢ J U2 ˢ -F<+ ˢ 2 +8ˢ 28J8 -8ˢ +#ˢ 8 ˢ I 2FJ+#-ˢ
2 JF ˢ 8- ˢ < <F2#-ˢ 8 ˢ 2# ˢ #+ #2# ˢ -# #2# 8+ˢ ˢ H J ˢ 8 ˢ 2 JJ +ˢ 8Xˢ 2#80ˢ
ˢ#G8 -8ˢ JJ#-F-ˢ 8- ˢm
2*1ˢ !7 ˢ .ˢ 9 ˢ +-ˢ / - ˢ ˢ &a ˢ ˢ / # ˢ h Gˢ
!ˢ 8G#-ˢ # ++ G#aˢUF J -a m
^ 6ˢ !& ˢ Pˢ [4ˢ 9 ˢ +-ˢ 7 , ˢ ˢ ' f ˢ ˢ !
!&1 ˢ **74 9 ˢ " ˢ ' ˢ # 4 !ˢ 8G#-ˢ 2 #a m@ +-ˢ
#ˢ ˢ / ˢ ˢ !F #ˢ FJ2#J#- m
!&* ˢ ˢ *4ˢ 9 ˢ / ˢ ˢ / ˢ _ˢ ˢ) ˢ ˢ ˢ ˢ / !ˢ
ˢ 8 ! ˢ / ! G e !ˢ X8+J# F-ˢ I - -ˢ JF ˢ 8228JH ## ˢ 8 ˢ JF ˢ
& JH E ˢ E 88ˢ -< 2# I8+F ˢ 2F 18+ ˢ +8 E #ˢ 8 ˢ 2[J #- mˢ
+-ˢ / #ˢ !ˢ ˢ # ˢ / !ˢ 1F F+#ˢ 8G#-ˢ --82#a m@ : F#8-0ˢ
ˢ ˢ h ˢ / !
!&JJJˢ ˢ f 4ˢ 9 2ˢ : F#8-ˢ * - ˢ #-ˢ - !@ +-ˢ) Gˢ
ˢ !ˢ) ˢ ˢ ˢ ˢ !ˢ) ˢ !ˢ ' ˢ 8G#-ˢ &8- - +F ˢ I82ˢ #E#a m^
A 7 Jˢ *#** ˢ 9 2ˢ * ˢ JaE8-mˢ / , , ˢ !ˢ / !@ : F#8-0ˢ
) ˢ #-ˢ !V e ` ` ˢ) A ˢ !ˢ - ˢ <c-J <#ˢ % ˢ ' k
!ˢ H E#a m@ +-ˢ 1 a ˢ / ˢ !ˢ !
+f ˢ !& 1 ˢU+UYf H [ˢ 9 2ˢ #ˢ 1ˢ XX## ˢ # ˢ I#ˢ JF++8 8- @ : F#8-ˢ) ,G
ˢ !ˢ ˢ ˢ -? <#8 #-ˢ <#-J <#ˢ # 8 2#a ˢ _ˢ / ˢ ˢ / ˢ
8G#-ˢ !-82#a sˢ Fˢ -ˢ #-ˢ ˢ - <#8 #- ˢ _! ˢ 4 ˢ
<#-J <#ˢ & ˢ &, ˢ _ˢ / ˢ h ˢ / G G wˢ / G& ˢ wˢ
/ ˢ ˢ ' G # ˢ ˢ ' ˢ - <#8 #-ˢ #a)mˢ _ˢ # Gˢ
ˢ ' G ˢ #-ˢ) #ˢ K ˢ wˢ / ˢ !ˢ + , ˢ ˢ
/ ! ˢ 8 !ˢ JH +8 aˢ 2F 18+ aˢ +8 E # mˢ _ˢ) ˢ !ˢ % ˢ
#-ˢ !!

B ! ! / ! !

!&JJ+J U1U1 # 4 9 2 +- /) # #!
#1 !YJJJJ 24 9 +- / # # ! ' - ! n 8G#- # 8+0
- m@ +- % # ! / # / ! 8G#- J# 8G] V)
' ! &F ' 82-8JH 22#
JF2#- + # 1#2# F+JH8+ JH# m
#&+ JJ 9 2 : F#8- ' / , , ; #J +## 2 8# 0
28JJ -#- m@ : F#8- / 2 !) , # / , ! +- ' G
/ ! 8G#- --82# a m
!&J J <# # +-) ! * # # ! 8G#-
JH +F m@ +- % , ! # # # 8G#- G8 #W m@
: F#8- / / <#-J <# _ % 5 # @ : F#8-
! / #- / ! ; 2 !
2 !& 1 <# 9 2 +-) , , !) / ! 8G#-
--82## m@ : F#8- ' ! / #- ! 9 2
' 1 9 2 : F#8- / # / # W #- !
! #J 1 9 2 +- 7 , # / , # # 8G#-
2#JH# 8 m@ +- # ' ! $#0) < -# # -8F
$+ 818J # 8G#- # 8+ #U8 m +- ' ' 8G#- 0
8 m +- + 7 # 8G#- / #EG# 0
+F # m
4 !&1 9 2 %! 1 ## F ### JF++8 - L # , Y
* ## / # ! / / # ! 8E8- " G 22# 1#2##
+ J# 8G#- # ++ G#+8 UF J - 8 m +-) ! / / !
8G#- --82# 8!] V % + , _
/* ! ! + G8- H E# +F -F<+ ! # F 12F I #F 8 E80
+82#SF8+F -F - I #JF2 - 8 E# 8+-# -F <2F+# ## -# #2# 8+ m
!& 2 9 2 * ## / 5 , _ ,
! ! ; - # 9#22E +# 8 <8+ 2#8 #G8 - &F 0
2# ## 8# # F2#8+ <+ -< -# # 8 #-- ## # 8 E8 m

B C O(8; (; ;7 (4 5= (5?(875 ! 41=58 (5 45'1 3= 1 55(2'7'7 (7; = 41 (55=8 3 '8 "
?48' 5(884 5=5U 4= = ?'54 67= @=8 4(5= '8 / (: (1 (574584 ?48' 5(" <74 4 67 456 8 ; (1 4@1J
17541 ^r 42 k 7 @27 '1 71 (5 4 4 75 !

!' !/ ! ! B

!+7 J ' U+Z 92' : F#8-') ' #-' %W # !' : F#8-' / '
!' ' u ' #-' !
' !7 ' Z 92' +-' / 4 ' !' 7 W ' # ' # ' 8G#-' G8 #w m'
_' 7 ' !' / ' # ' ' ') W ' 8G#-' &8-# +F # m@ : F#8-' ; G'
#' !' 7 # ' #-' !
!&J ' V' 4' 92' +-' 7 # ' ' ' ' / - ' 8G#-' J# ^ m'
' !' ' 5' ' ' ' ' # i ' ! / ' ' + ' ' W'
' ' ' ' ' ' , !' ; #J +# ' E8' 2#8 #G8 #-' #0'
8+#J#' < + ' <8+' HG F ' 1#2#F ' 8 ##8 H#' <FE' ! F2JHF ' 8 ' # 8+#0'
JF ' J F#' # F+' ' 8 ' 8' #8+#E#8 #' E#8#' -8SF8+# #- m' : F#8-' / ' !' / k
1 ' #-' ' # !
221' !&J ' 2' .' 92' / ' ' ' # ' ' ' ' ' , ' '
/ ' !' 7 # ' ' ' ' !' * # ' & , !' &, ' _' # ' '
' , !' X8+J# F-' I - F-' JF ' HG ' J + ' #E # - ' 8 ' JJy-F-'
8- ' # #' 2# 2' 1#2# -' / G + JH#' +8X' w F2F-' # 8+ #w @ ; - # ' #28J8 0'
-#-' J# I # #-' +#' 8 ' J - + ' EF F ! ' E#8 F-' # ' 8 m
' &J ' 2' # Z' 92' +-' % -' !' ' ' u#!' 5 , ' ' 8G#-'
" +w ' JJ#-#' <8+m' ' ! + # ' ' ' # ' ' ' ' 8 ' '
' ' # !' 8 ' ' _' ' ' ' , ' ' & ' !' +-'
' ' ' ' #' 4 ' ' T) ' !' ' ' #' ' ' # '
' !' / # ' W' ' 5 ' 4 -!' X8+J# F-' 8F #' HG ' E'
1#2# -' ' + ##' E 8J' - F2# ' 8 +F# ' -#E8- @ 8 2 F-' G#2#-' 8 ' 8UF-' 1#2#F-'
JJ#-#' <8+' +F ' # 8+#J8 -8 ' +-' +EG #2' 1#2##' FE #' 8G#-' 2 0'
#w ' 8 ' & J #' 1#2##' 82 +##' 8G#-' +G# 22#w ' SF#' JJ#-#' -F ' <8+' 1#2#F '
G 22 JH#' 8 ' <8+' 2#8 #G8 -' & F 2# ## m
Z A 7 t' ((Z' 92' ' # ') , ' ## ' - ' 7 " W'
, ' ' + ' ' ' W' ' ' ' ' ' ' ' #' '
' ' r ' ' # ' W' 7 ' W' ' ' 8 ' _' !' !' & , ' ' + G'
' W' , ' ' ' 5 ' ' W' ') ' ' !' 2J8 E#F '
E F-' & F 8H+ ##' ' GG JH ' # SF ' JJ#-#' -F ' _ ' 8 ' 8X<F2-# ' #2# F '
' # ' 8 ' +# ' -F<<2#J# ' 1 J ' -F E8 # F-' #-' 8 ' +82#G# -#-' 0'
#w ' # 8 ' HG ' 8 ' / 82 ' 8 ' 1#2# ' + #' 8 +82#SF#- ' #' 8' 8X<F2-# '
#2# F ' 8 ' 8X<F2-# ' 2#8 #G8 +F ' 8' # 8+#J ' 8 ' 8 +F ' +J8-' J F- w m'
: F#8-' % ' , , ' / Gw G @ +-' ' ' # ' # ' 4 '
' R

! ' ! / ! !

' ' ' ' 8G#-' 2 #w' JJ#-#' <8+' ' FE] ㎜@ +-' ' '
!' 7 ' #' # ' 8G#-' G8 #w ㎜@ +-' 5 , ' !') ' #'
/ # ' !' 8G#-' # ++ G#w' UF J -w ㎜
3----' 2' KZ 92' '#I ' 1' XX### ' 2F ' ##' JF++8 8- @ : F#8-' / ' '
' ' ' 7 ' ' ' / '! ' G8 !') , ' / , ' K G'
' ' W ' ' ' ' ' ' ' ' '_' ' ' ' , ' G'
, 'W' / , ' , '_' ' ' ' # ' ' ' ' ' '_'
' ' 'K ' '#!' @ +-' / , ' !' % # ' !' / '
' / '_' ' / ' ' ' # ' ' ' ' ' / '
!' % #' ' , ' # , ' # ' # F-' 98 8 H#' >8 E 0'
J2## +F ' JH +8 w ' <FE' 2## 18+ ' +8 E #' &F E 28 H8F-' ; #J +#F-'
$ +#J##' I8 # ' # ' 8 ' 18J# ' -F ' I#-# # 8 ' 8 ' 18J8+F ' E8 8G 0'
8 ' # G w' < + #-' I8J #G 2#F ' #<-#' 8 ' ; #J +#F-' 2 8#' 8 ' 18J# ' HG '
8X' #w' < J8 ' # 8+' 8 - ' 8 ' J -8 -8+F ' # ' UF+ ' $ +#J##' G8F8+ 2# 8+'
+-' J +#' 1#2##' H E8#' 1#2##' H 2E#' 8G#-' J#w ' 8 ' I - # ' 0'
J#w ' <8+' F+J2# EF ' E#J F ' " 2F 0+#02 +' < - 8 ' 8 ' H 2' 1#2#F-' H E8#'
JJ#-F-' < - SF ' # F# ' +8G F ' # 8E# 8 ㎜
!&J+JJ' ' # ' 92' I ' 1' #I ' ' ' ' ' ' ' ' '
K ' ' ' ' & ' / !' _' ' ' & ' ' , !' / #2#F-' + 2E#'
JF ' 8X8+J# F' # G8 8' J#+JF ' # 8+ # ' E 88' I - I# ' -F2 ' / #'
8 ' - F2# ' +#F ' -8JF ' # ' J < #I 8 ㎜@ +-' ' ' 5 G G @'
: F#8-' + ' ' ' ' '_' , ' & ' / !V ' ' 8 ' ' # , '
' | ' ' ' '_' ' ' ' ' # !' / #2#F-'
+ ##' # 8 ' -#E8-' #w' ' # 8+#J ' E' F- +F ' 8 ' I8 # ' J + '
㎜# HG F ㎜' +-') '; !' !' ' !
0M2 !' I ' / !' +-' / ' !' 7 ' ' #' ' # !' & ' '
' ' '_' & ' , ' ' # , ' ! !' +-' + J#' 1#2##' / 82 #'
JJ#-#' ' 8X8+J# F' HG # 0@ +' J2 ' F1FG# ' + - +8 ' 8 ' -F2 '
F ' 8X< i G 2 ' # 8+F ㎜
!&JJJJ' ' [' 92' 5 ' ' ' !' 7 , ' #' 5' , ' '
5 , @ +-') ' !/ ' #' * # !' # , ' ' # '
' / ' #' / ' ' # , ' ') , ' ' '_' ' , '
' ' 8 ' ' # '_' '!!!' , ' + ' ' '_' , '

! ' ! / ! j ! B

2 !' ; F2 F-' + 28' 82-8JH 2 ' 1#2##' / 2 + #' 8G#-' " # 8' <8+'
2#8 *G8 - @ +-' & J E#' 1#2##' 822 JH#' 8G#-' -- +# 8 @ < # I # -'
G #' 1#2##' 8 8 H#' 8G#-' --82##8 @ < # I -' 1 J F-' 8- ' ' & J2F0'
' E 2 -8 ' 8 ' + E# F-' 1#2# ' + ##' J + ' <+ 8J # 8 ' 8 ' J + ' 8XJ 4'
F #J # 8-' - <#8 #F ' #+8 ' 8 ' JJ#- -' ' 8 m
1' ! &JJJJ' ' #U+4 9 2 ' ## ' 1 ' I ## ' F ' I ## ' J ++8 ' & ' ' 5 ' %' ' '
' ' ', ' ' & G #' ' 8 ' !' / !' / -' ' 8 ' !'
/ ' ' ' 7 # ' ' ' ' ' ' 5 ' !' ' ' !' 4 G'
' # ' ' ' _ ' ' ') ' !' / # ' # ' ' '
, ' ' ' ' # ,' 4 !' # +' 8X' 2#8 #G8 +F# ' 8 ' 8U -' E '
1#2##' JJ#-#' # ' - 2 ' H #G ' <8+' +# ' 1#2# ' 8 8 H# ' X8+J# -' I -0'
-' J ' +# ' 1#2# ' 8 8 H#' J + ' / #EG8 # - ' E 88' 1 J ' 8- ' - + G8-'
2#8 #G8 + ' # #' F+J8+ JH' 1#2# -' & 2E#' 1F +F-' 8X' # 8+ # 8 ' 8 '
1#2# -' & 2E#' 1#2##' G 22# ' 1F + -' 8X' 2# - ' JJ#-#' ' <8+' 2#8 *G8 -'
&F 2# ## m' & JJJJ2XX I ### ' , Y
L Z !& 1' 9 2 ' ### ' 1 ' X I ### ' ' JF+ * ' 8 #G ' ' ' ' G'
' !' 8 ' ' / ' $++82# ' I#-8' GG8+#-' - J+#' - X +F ' # ' S ' JJ#
- -' 8- 82 E' 1#2# -' + ## ' 8X' --82#-8 m' _' 2##' F2 # ' 8 ' !' / k
' I#J +' 1 # ' / ' ' ' w' 7 ' ' !' +0'
J G# ' I - ' 8 ' / # 8JH ' <#-J <F-' ## m
L2 ' !&# 1 ' & ' ' 9 2 ' # I ' 1 ' XX#X '
I ' ' & ' ' 9 2 ' I ' 1 ' X ' ' 8 ') , ' #' ' !' +-' & 'EF0'
#' 8G#-' < - 8 m' +-') ' ' ' #' % !' 8G#-' 8 +#-8 m'
/ ' ' !' ' ' _ ' ' , ' w' ' ' 5 ' ' # ' ' & '
' % ' r F ' ' w ' ' !' $+-82#F ' G F ' # 8+' 82-8JH 20'
2F ' 8 ' 1#2#F ' 2 1#' 8 ' - + G8-' 2#8 #G8 +F ' JF ' G 22 ' 1#2# ' +#
<FE' 8 +# ' # ' 8 m @ : F#8-' 7 ' !' / ' #-' & G
' ; , !' 8 ' +-m' / ' ' / !
C . ' 9 2 ' I ## ' 1 XX# ' ' : F#8-' ' <#-J <#' # @

, Y' ; #E8' 2 ' %2 ' E' ' E+ ' 8 ' ' -F<+ ' E' 'L)_Z < 'B ' F E8' J - ' H # ' 2#F '
!J+#< +8 ' -' F 8+ --8' # ' J 8X F' F 8+#-' #-' E#I8+-8' ' +E# 8' +F ' 9 2' w'
8 # ' w+ + ' J F 8 ' 8 I8+ F ' F <2F+# F ' ' c ' I82' _' F 8+#' F 8 ' #' # ' J
8X F' w+ ' 8 E8 ' F ' ' -F -8SFF F+ @
' C

: F#8- # #- / 8 @ : F#8- ' # / , / /
/ 4 ; #J + # 2F w JJ28-# +F)
! 4 A&J 2 #7Z 9 2 1 ## / ' * #
_ w2 , , ! X8+J# F- JF #8 -#0
F- -- +# 8 - F28+F <+wE - G - y E8 8 J8v-# - [<2F+# #
8 +F # # m / w ! 5 , #) , - 1F F+F- 8X
&8-# +F < +I +F m _ !) , # ; `7+8 8X + +80
+F m _) ! ' 5 , 8X " #0w m_ 2## F2 # 0
+#8+F # H J 8 ' # , / ! ; F-
+ - F 8 +#F- J <# E + # #- 1+ J F- EU ##E# -8< 8 +# 28 #0
8+ #w E#J E# #E# # m , #Y
& 2 # Z 9 2 [X### / , 8 ! /
/ , # 2 ' w ! / # _
!) , _ ! ' # / ?@
) 8 _ ,
8 ! 2 --#- G JF +# 1#2# 8 8 H# # +8G# 8 J#w
8 JJ#-# -F <2F+# # 8X8+J# F- 8UF- # # # 8 82-8JH 2 1#2#F- -J+ G## 8
E 1#2#F- &F {H+ ## _ JH2# 1#2#F- 82-8J 22# 1F F+F- 8X F0
J + 8 -#- @ $+ 18J # -F #2# 8- 8UF- J#+J +8G# 8 # +#F# 1 J
8- - + G8- G # 8+ 8 - 8 +#F # - m : F#8- / ! ' G
#- ! V # , 5 GK w2) ^ # * k
w * # 8 ! / _ # # , ! # ,
ww W# , ! < # I # - " #2Ew0< +#J## 1#2##
& JH E# 8G#- -- +#w 8 I - # -- +#w <8+ +# F 1#2#F 9 8 8 H#
8 8 +F -#E8- J < # 0) # F# +# F- -#E8- G8 #w # # # #
8E# J <# 2 8# m
!&JJ & o 9 2 ### 1 XX#I '
K G ## # _ /
4 ! % ' #
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* # , , ' w w #

, Y &8 JF2 F + +F # 8+ I8 8+8- # 8+ - I#E8 &#--8U E8 82#G# 8 H #J +F # 8+F##8 !Z
2# H8J ! 8 -8

Xˢ ˢ) ˢ ˢ;2 # ˢWˢ ˢ5 ˢK ˢ !) !ˢ 2 --#-ˢ
G8 -ˢ 1#2# +F ˢ + 2E#ˢ F-SF8ˢ P 8+1 +E# ˢ E 88ˢ I# JF2#-ˢ 2#G I8+F ˢ
-#E8-ˢ # #ˢ 8ˢ 1#2# -ˢ 8 8 #ˢ JF ˢ8X<8E# ˢ# # 8+ 8ˢ 8X8+J# Fˢ #I#ˢ J +ˢ
&F 2# #F #@ˢ ;8 8+F ˢ ##ˢ F-SF8ˢ Eˢ 2# # 8-ˢ G8 #w^ˢ 8ˢ E8+82#SF8+F ˢ
2#8 #G8 wˢ +8G# 8 ˢ 8 -82 JH#wˢ 8ˢ + -#8+F ˢ +8ˢ 8ˢ ; - # ˢ -- +#wˢ
E8# E8ˢ 8 E8 ˢ ˢ<8+ #8 -8-ˢ 8ˢ 8UF-ˢ JJ28-#wˢ 8 JJ28-#wˢ G8 #w ˢ
8ˢ 8 +F ˢ +J8-ˢ I - wˢ 8ˢ 2# 8+ #ˢ "#2Ew0< +#8##ˢ 1#2##ˢ & JH E# m
!Z JJJˢ 2ˢ b%Z 92ˢ%!ˢ 1ˢ%!ˢ ˢ / ˢ ˢ ˢ) ˢ ˢ ˢ8 ˢ ˢ ˢ ˢ
ˢ ˢ ˢ ˢ ˢ8 ˢ ˢ) ˢ ˢ # ˢ_ˢ ˢ) ˢ
!ˢ 7 ˢ ˢ G # ˢ_ˢ ˢ ˢ ˢ) ˢ !ˢ ' ˢ ˢ ˢ ˢ
ˢ ˢ ˢ ˢ ˢ ˢ , ˢ !ˢ X8+J# F-ˢ JF ˢ &8-##-ˢ Eˢ <0ˢ
<FG E -ˢ +# -ˢ E 88ˢ - F28+F ˢ ˢ I8-ˢ 8ˢ I - I8+F ˢ +# #ˢ
&8-# -ˢ #ˢ I# E#J ˢ8ˢ 8X<F28+F ˢ& 2EF ˢ 1#2#F ˢ / 82 #ˢ F-SF8ˢ P 8+
1 +E# ˢ 8ˢ IF2 8+ I8+F ˢ &8-# -ˢ 8-ˢ F E #ˢ 1+FGF ˢH Jˢ ˢ
ˢFˢ EF+ +8 ˢF-SF8ˢ F ˢ 2 8+F m
1ˢ !& 1ˢ Ufˢ # ˢ 92ˢ I#ˢ 1ˢ XI#ˢ 2o ˢ ˢ !ˢ ' # ˢ ˢ ˢ ˢ
8 ˢ !ˢ / !ˢ , ˢ ˢ ˢ , ˢ ˢ/ ˢ ˢ @ˢ
ˢ ˢ ˢ# , ˢ ˢ ˢ ˢ ,, ˢ ˢ& , #ˢ &, !ˢ & ˢ ˢ/ !ˢ
ˢ ˢ5 ˢ_ˢ ˢ ˢ ˢ # ˢ ,ˢwˢ !ˢ ; ˢ , ˢ ,!ˢ 8Eˢ 1#2#F-ˢ
HG +ˢ 8X<F2-F-ˢ ˢ +# ˢ1#2# ˢ 8 8 #ˢ # ˢE8# E8ˢ E ˢ H8 0ˢ
1 E#ˢ 2F ˢ # #@ <# - ˢ1 -ˢ +# F+ˢ 8Xˢ H8E+ˢ #-ˢ #ˢ - 8+# ?ˢ
28J8 -8ˢ +#ˢ ; - #ˢ &F #ˢ 2F wˢ JJ28-# +F ˢ <8+ˢ 2#8 #G8 -ˢ
8ˢ -F2wˢ I - wˢ ˢ8#-ˢ 8ˢ <#-J <F-ˢ wˢ JJ#-F-ˢ ˢ8#-)m
!& 1ˢ ˢ# 4ˢ 92ˢ I##ˢ 1ˢ XXI##ˢ 2F ˢ + # ˢ ˢ8 ˢ !ˢ / ˢ Gˢ
) ˢ ˢ ˢ# ˢ ˢ_ˢ / #ˢ wˢ & , ˢ&, ˢ ˢ , ˢ
ˢwˢ ˢ ˢ ,!ˢ X8+J# F-ˢ JF ˢ +# ˢ1#2# ˢ 8 8 #ˢ J +)ˢ
&8- # ˢ8ˢ - F2#ˢ -#E8-ˢ #- +#wˢ 8ˢ +J G#wˢ 8ˢ 28J8 -#-ˢ J#I#0ˢ
#-ˢ +#ˢ 8ˢ 8X<F2-#ˢ 8 +F ˢI#+ -ˢE J -ˢ8ˢ 8 +F ˢ +E# 8-ˢ 8XJ F #J 0ˢ
#F ˢ8Xˢ 8#- m
A2 ˢ !&JJ1 ˢ 4ˢ 92ˢ#ˢ 1ˢ#X ˢ ˢ / , ˢ ˢ8 ˢ ˢ ˢ ˢ2 Fˢ Tˢ
ˢ ˢ' ˢ ˢ4 ˢ_ˢ ˢ ˢ ˢ4 ˢ_ˢ ˢ ˢ
' ˢ& ˢ ˢ ˢ ˢ u,ˢ ˢ ,ˢ ˢ ˢ ˢ ˢ ,ˢ ˢ
2ˢ) #ˢ ˢ ˢwˢ ˢ ˢ !_ˢ) # ˢ ˢ # ˢ_ˢ
2ˢ F2 #ˢ_ˢ ˢ ˢ ˢ' # ˢ ˢ/ , ˢ # ˢ/ ˢ- ˢ !!

BK ! ' ! / ! !

2 --#-' JF ' +# ' -F<+ ' 2 JF ' #' #' 8' ' I#JFyw ' E 8J' I - I8+F '
m ##E# ' F-SF8' - J JH ' 8 ' #8+F ' F-SF8' - 8 +H ' 8 ' I - I8+F ' #E# '
8 ' #8+F ' ' I#JFyw' #- +F ' Jy ' 8 ' 1 J ' 8- ' - + G8-' G ' 8 0'
+F ' # #' #' 8 ' &F 2 G' 8X' H2# #w ' 8 ' # 22' ? #+J ' 8 ' &F G 2 JH' ?
G-#JH ' 8 ' 2##' F2 #' 8 ' JJ#-F-' 8- ' !#F+G#F-' 1#2#F-' JH +#' 1F F+F-'
8X' J#w' <8+' #- - m

!& ' &"'' .' 92' ###' 1' >>' 2F ' : F#8-' / ' ' ' / , '
, ' ' ' 5 ' ' !' ,' ' 5 ' ' , ' ' ' !'
F-' 8E1 E#' 2F #' # #' ; #J +[' # \! ?@) + +#F ' " 8 018++8#' 1#2##'
2 1#' 8G#-' 2#8 #G8 +F ' JJ#-#' ' G\ 8' -F !] V / # ' !' ' '
/ , ' # +# F+! V / ' ' / ' / , ' 8 ' ; #J +#F-' +0'
+8#m' SF#8 I # ! V) , ' ' ## ' ' ' / ' 8X' F J2#0'
+F m' +# F+

!& ' J ' X' 92' #I ' 1' #' 2F ' ' !' !' / ' ' # , ' '
& , ' &, ' _' ' & W ' ' ' ' # ' w' ' G '
' 5 ,' w' ' ' # ' ' # ,!' , ' FP' ' / ' ' , ' w' ' { ' '
, ' ' & ' / !' 8 ') ' !' ' #' ' 7 ## !@) G'
/ ## ' ' # !' J ' 1#2#F-' 8 8 H#' # 8 ' # ' 28J8F0'
-8 ' +#' 8 ' 1#2#F-' # +#' 8X<F2-F-' 8' P 8+1 +E# ' 8 ' ; - # ' --#w' $8+80'
G+# +F ' <8+' 2#8 #G8 - ' 8 ' $+w28J +' - 8+##' J < F-' ' 8#- ' #' 8 ' 1#2#F-'
--##' E8' + ##- ' 8 ' +8E8 < F-' 8- ' ' +# ' < #E' #-' H #G 0) +-' & 0'
2E#' 1#2##' +J #' 8G#-' / +G +F ' &8++8 -#-' J# I # -' I - m
^L #' !& ' ' 92' %! 1' X## ' 2F ' + # ' ' 8 ' !' / ' # '
' % #' !' 8 ' w' ' , ' / ' / ' ' # !'
) ' ' / # ' # ' ' ' , ' ' ' ' !'
') _ ' ' ' ' !' 8 ') ' ') # #!' X8+J# F-'
JF ' +# ' 1#2# ' 8 8 H#' G8 # ' F #' JJ#-F-' 8- ' H E8F-' 1#2#F-' & 0'
JH E#' 8 ' JJ#-F-' 8- ' 8++ ' J 228 -#-' # ' I# E#8 ' & J E' '
G 2 JH' 1F F+F-' 8X' # 8+ #w' J #-F-' <8+' 82-8JH 22F ' 1#2#F ' & 2E#'
E 2 -8 ' < - ' J + J ' 11# # 8 @ +-' & 2E#' '&F G 2 #G0m@ : F#8-
+ ' !' % #' ,2 ' / $+w< -# #' 9 #22 ' ' R' ' m
+ .') 1 ' # ' |Z' : F#8-' ' , ' / , ' 8 ' / !' ; #0'
J +##' +8 E #' 2F 18+ 8 -#-]! V) #' !') ' #' / , !'
+-' &F E G#' 1#2##' &# + # ##' TG#-' +J -J# #w m@) : F#8-' / ' !'
", ' #-' & G / !

2 ˢ !&1 ˢ U11ˢ 4 9 2ˢ#ˢ1ˢ#I ˢ 2F ˢ I#ˢ JF+ˢ / -ˢ #ˢ ˢ8 ˢ ˢ ˢ
8 ˢ ˢ ˢ ˢ ˢ ˢ !!ˢ X8+J# F-)ˢ+ I 2#-?JF ˢ +# ˢ I8+
-F-ˢ +81 8ˢ F-SF8ˢ 2 JF ˢ #ˢ F2 + ˢ I J2F ˢ ! X +F ˢ-F+-F m@ : F#8-ˢ ' #Gˢ
ˢ ' ˢ ˢ $+-8< -# #ˢ F G +# 8H-#- m0@5 G
K ˢ !ˢ) ˢ ˢ ˢ ˢ ' ˢWˢ # ˢ ˢ ' ˢWˢ ˢ) !ˢ ˢ
ˢ ˢ / ˢ ˢ ˢ / !ˢ ˢ 2Uˢ ˢ / !ˢ !ˢ ' - ! ˢ ˢ
ˢ Gˢ !ˢ / ˢ ˢ ˢ ˢ8 ˢWˢ 2ˢ F2 # ˢ & ˢ ˢ ˢ Gˢ
!ˢ ˢ ˢ ˢ , ,ˢ ˢ ˢ #)@n " #2E -ˢ $ +#8#F-ˢ 1#2#F-0ˢ
& JH E#ˢ#I#ˢ #E# ˢ8ˢ - I#ˢ JJ28-# -ˢ #E 8ˢ8ˢ8UF-ˢ +J8-ˢ ! + G8-ˢ
G ˢ JH 8 -#F ˢ<8+ˢ 8G8 ˢ +J + 8 -8# ˢ #ˢ8ˢ<8+ˢ J +F ˢ
1#2#F ˢ 82-8JH 22#ˢ 8 ˢ JJ#-F-ˢ 8- ˢ # #ˢ 22 E8+#JF-ˢ 1#2#F-ˢ -J+#JH#ˢ 8Xˢ ?ˢ
+#F # +F ˢ8ˢ 2##ˢ F2 #0ˢ +ˢ I8 #ˢ&F 2# #F ˢJF ˢ 1#2#ˢ 2 1#ˢ F 8+ ˢ
ˢ I#F m

22ˢ 7 ˢ2 UJˢ 1# ˢ 9 2ˢ##ˢ1ˢ I##ˢ JF++8 8-ˢ XIˢ2F ˢ e `h 7 ˢ
ˢ / ˢ+ ˢ ˢ& ˢ / !ˢ 2E# F#ˢ - 8+#+# -F2-8ˢ H 2G m

2 ˢ !&JJ ˢ2 ˢ # ˢ 9 2ˢ###ˢ1ˢXXI#ˢ2F ˢ I##ˢ JF+ˢ : F#8-ˢ / ˢ F2ˢ !J+# ˢ
!ˢ / ˢ / , ˢ+ ˢ ; #J +##ˢ !8 #mˢ 8 ˢ # ˢ ˢ& ˢ2
#ˢ!5 !ˢ 8 ˢ / ˢ !ˢ ' ,ˢ ˢ , !V / ,ˢ ˢ # Gˢ
ˢ ˢ# , ˢ ˢ& , !ˢ&, !V / ˢ / ˢ Wˢ & ˢ 5 ˢ_ˢ
ˢ ˢ+ #ˢ ˢWˢ) ˢ ˢ ˢ ˢ8 !ˢ +-ˢ 8G# 2E#ˢ 804
< #-ˢ +#ˢ 8G#-ˢ 2#8 #G8 +F @ # +-ˢ 8 ##8 H#ˢ 1#2##ˢ 2J 2 ˢ -F #^ˢ
8G#-ˢ 2 # f ˢ, Yˢ 2F ˢ ' G ˢ # T ˢ # ˢ 28J8 -8 ˢ
+#ˢ ; - # ˢ --82# 8ˢ 8ˢ -F2 8ˢ2 JF-ˢ " #+ˢ8ˢ -F2 8ˢ2 JF-ˢ ! G28 Eˢ8ˢ
+J#F ˢ<2F+# +F ˢ-# #2# 8+ˢ<8+ˢ +# F m

2 £ˢ !&JJ ˢ2 ˢ ## ˢ 9 2ˢ ! ˢ ˢ I##ˢ2F ˢI ˢ JF+ ˢ5 ˢ ˢ / GGˢ
ˢWˢ ˢ ˢ ˢ# , ˢ ˢ8 ˢ !ˢ / ˢ ˢ #ˢ , !ˢ 8 ˢ
5 ˢK ˢ !ˢ) ˢ #ˢ * # ˢWˢ / ˢ !ˢ) ˢ ˢ# , ˢ
ˢ ˢ ˢ !ˢ ˢ ˢ ˢ ˢ a ˢ ˢ ˢ # ,ˢ, Gˢ
, , ˢ ˢ ˢ ˢ ˢ ˢ ˢ ˢ ˢ ˢ !ˢ) , ˢ
/ , ˢ / !ˢ / ˢ?!ˢ # ˢ >< ˢ 8 ˢ/ , ˢ !ˢ #ˢ / # ˢ !ˢ
ˢ / ˢ ˢ / ,ˢ ˢ ˢ ' # ˢ !ˢ !ˢ 9 28 E#-)

, Yˢ F18+ˢ 2ˢ # ˢ Eˢ ˢ <!ˢACCˢ8ˢ ˢ ˢ< A.L

BC ! ' ! / ! !

'# J#E8 # F-' # ' E#8 '<+# #U8UF ##',# 8 'E#8 ' 8+JFI## Y' I##'2F ' I#'
JF++8 @ -#E8-' 8 -82 JH# +F ' 8 ' JJ#E8 2#-' #11# J < # <8+' +# F '
1#2#F ' 8 8 H# # 'J < ' 2 8#' +-" #2E 8' $ #J## 1#2## & JH E# 8G#-'
-- +#+8' 8 ' 82 J2# 1#2#F-' &# + # ## # 8 ' +8G # # < - ' 8F #' +E JH '
J F- ' '1F2 # 8' # 'F ' ' 8+8' F++#-' # ' +E JH ' 8J' E F-' +8
2#G# - ' # '<+ UJ# J F' +J#-' SF-8' '8--8 'J F- ' &F E 28 H8F-' ; #J +#F-'
+E# J F-' # 8 ' $ +#J##' 8 ' ; #J +#F-' g# #8' JJ28-# +F ' SF#8I# ' # '
H+#- @ +-' J +# 1#2## 8G#-' # ++ G#+8'UF J --8' ! + G8-' +J 0'
+ 8 -#F '# ' J# ' F # JJ#-F-'8- ' F+G#F-' 1#2#F-' E8+#J# m
' !&JJ 1' #U1U' K' 92' I#'1'#I ' 'XI###'2F ' 8 ' ! / - ' ' #'
' ' ' ' ' K ') ' _' ' ' !) ' '
% ' / ' ' ' ' , ' ' ' '2 ' ' / ' ' ' '
w' ' ' # ' '8 '_'5 ' # '_'5 ' ' , ' ' ' ' '
' '8 !' +# F-' 1#2#F-' 8 8 H# JF ' 8GF2#-' # ' -8JF '
F-SF8' $ + 0& JH ' 8 ' 82-8JH 2' 1#2#F-' & 2E# 8X' 8 +##8' E 88'
E#I#-8+F ' # 8+ # '# 8+'-8' # 'EF -' < + 8-' #'8 ' &# #E#F ' # 820'
-8JH 22 '8 '&# #E#F ' G-8' +# ' 8 ' -#E8-' G8 # 8' 8 ' 2#8 #G8 +F '
SF -' H F#' 82-8JH 22' JF ' 2##-' + E# # +# m' : F#8-' / ' / G'
@ : F#8-' ' ' ! 7 , ' / , ' + ' ; #J +## !8 # m'
' !&J ' 92' I##'1'XX#X'2F ' 8 ' ! / ' ' A A '
'# ,'5 ' / ' ' ' ' Y' ' '5 ' ' ' ' k
!' +# F-' 1#2#F-' 8 8 H# H2 # 'E 88' # F#' -#E8-'
J# ^' # ' F '-8< # ' 8 'E8E#' -#E8-' #- -' 82-8JH 22 m
!&1 #' ' 92' #'1'>'2F ' 8 '+ # ' ! / , ' ' ' ' !'
: F#8-' % ' ! 8 ' !' ' '5 ' ' '8 ' ! / G'
'_ ' ' ' ' , ' ' ' ' '5 ' ' ' ' !'
U / '# ' ' !' +-' !8G#8 # 1#2## + # 8G#-' E +F '
: F#8-' #<+ ## 1#2## + ## 2 #' ! + G8-' 2#8 #G8 +F ' &F 2# ## <8+' +#
F '1#2#F ' 8 8 H#' 8 ' F2 # FE ' #8 -#F ' JF ' 8 ' # ' F ' JJ#-#
8--8 '# # F2 # FE ' 2#8 #G8 +F ' # 8+ # 8' # ' -F#-' J - +#-' # 8 ' $ 82#F '
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G8 ; #J +## 2 8# G+8--# 8X8+J# FF # #w 8 < ## J#w 8

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, ˢ Tˢ _ˢ ˢ !ˢ : F#8-ˢ) # ˢ !ˢ 8 ˢ !ˢ % Gˢ
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1#2#F-ˢ &# + # ##ˢ 8Xˢ -- +#wˢ 8X<F2- -ˢ ˢ 1y2##-ˢ " #2Ewˢ $ +#J#ˢ 1#2##ˢ & JH E#ˢ
; F2 F-ˢ + 28ˢ J +#ˢ 1#2##ˢ 82-8JH 22#ˢ 8G#-ˢ +J + + 8 -#-ˢ 8ˢ 0ˢ
2 1#ˢ 1#2##ˢ JH2# #ˢ 8ˢ #JH#+##ˢ ' + #J 8JHˢ #ˢ JJ#E8 2#ˢ J# ˢ 8ˢ 0ˢ
H 2ˢ 1#2#F-ˢ + E#ˢ JJ#-F-ˢ ˢ 1#2##-ˢ & JH E#ˢ 2 #ˢ +# F-ˢ 1#2#F-ˢ 8 8 2##ˢ
E8< #ˢ 8ˢ +8G ˢ 8G8 ˢ G8 #wˢ #ˢ 8ˢ & JH EF ˢ 1#2#F ˢ & 2E#ˢ 8ˢ 0ˢ
-#E8-ˢ G8 #wˢ E wˢ +# @ 82 +E ˢ 1#2#F-ˢ F+JH E#ˢ 8Xˢ 8 -82 0ˢ
JH#wˢ I# 2 ˢ # F # 8-ˢ 8E JH#ˢ / 8+ 8 -#-ˢ 8ˢ JJ#E#ˢ 1F F+F ˢ 8G8 ˢ
8 -82 JH#wˢ #ˢ 8E#ˢ - J ##ˢ & JH Eˢ ' JH ˢ ? -ˢ " 2# E 0ˢ
2 JH28 -#-ˢ SF#8I# @ / 2 H8+ Jˢ ' ## ˢ 8Xˢ #+ 8 -#F ˢ 8ˢ / #+J 820ˢ
28 -#F ˢ 8X<F2- -ˢ ˢ G8 8ˢ <+ <+# ˢ 8ˢ JJ#-F-ˢ ˢ 8#-ˢ : F#8-ˢ & G 22#ˢ 1#2##ˢ
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2 #ˢ ' 28+#ˢ JJ#-F-ˢ #ˢ <+w2#ˢ # 8+ˢ / # JH+ JH -ˢ 8ˢ # - @ +# ˢ
1#2#F-ˢ 82+F #ˢ 8Xˢ +F# # +F ˢ J#wˢ +# F+ˢ $+w2#F ˢ # 8+ˢ 2 0ˢ
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? 2 o#wˢ JF ˢ -F#-ˢ EF8# F-ˢ J8J#E#ˢ #ˢ 8 E8 ˢ 822 @ # F-ˢ F+8 JH#ˢ 1#2##ˢ
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G+8G # # 8+ +FF# + 98 #G8 SF # 8+ 8 -#F 2# #0
F- #- / F E JF +# 1#2# "8 8 H# +E JH 8 E +J8
G F J <# 8 8 # 2 # #++ E F18+8 E - -#E8- #+8 22#-8 8 #0
+ ##8 : #F8- 8 GF-## 1#2## +8- 22# ; #J +## #J @ : F#8- JH E##
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82-8JH 22 8 JH 8 -# F- 8 2#8 #G8 #- &F 2# ## 8 I #+# F- #0
8+ #- #F- 2# # # F- #- / F E < - 8 H2 # 8 8 8+F E J 0
+ J --+F E 8 #8+F F2 + <8+ -8< 8 +# 28- E 88 18J8+F I #-# 0
8 +8 2#- # 8+ #a #+J 22#a #+ #a %2 #a 8 +G# 22#88 m
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+F E## 8G#- 2 # - G J G+8G # # 8+ +F JF +# +
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+8 E # SF#8 I # # H+#- @ JH +8 a F a JS #- +-
FE # 8G#- [2 #a +- JH JH # ' / 2 JH E < - SF
+ 2# I F2 8+8 8--8 <8+JF--F- &F E 28 H8 0+0) : F#8- &# + # ## ' G0
-8JH ; #J +## 1#2## @) #JH8+ 1#2#F- 8 E## - F G +# 8 -#-
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U8UF # ʼ 8 2F w ㎡ : F#8-ʼ / ʼ ʼ) ʼ #-ʼ % # W `
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F# 8E8 JHʼ ' 8# JHʼ -ʼ -J+88 -#-ʼ I 8? #ʼ # ʼ -F ʼ <8+8G+# # 8 ʼ
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8UF-ʼ <28 +#F ʼ +# F F ʼ +# ʼ 8 ʼ - F2#ʼ +# F-ʼ -#E8 !ʼ ' # 22#ʼ F-SF8ʼ
+J8 ʼ 8 J + ㎡ ' ʼ - ʼ / , 4ʼ ʼ ʼ ʼ ʼ $+wJ#<FF-ʼ
- <#8 -ʼ # 8+ #w㎡ SF#8 I #ʼ # ʼ > < ʼ # ʼ G _ V / ʼ ʼ ʼ
ʼ # ʼ % G# ʼ $+w28J +ʼ - 8+##ʼ 22#-ʼ ! 2#-㎡ SF#8 I # V 8 ʼ
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ʼ E#8ʼ 2F w ʼ 8 ʼ XX###ʼ 2F w @ G ʼ J I 8 # ʼ # 8+ +F #ʼ JF ʼ +# ʼ
1#2# ʼ 8 8 H#ʼ #+J 22# ʼ E 88ʼ E# I #-8+F ʼ -8ʼ # ʼ EF -ʼ < + 8-ʼ 8 ʼ # I # ʼ E# #0ʼ
E#F ʼ 8X8+J# F-ʼ JF #ʼ EF F-ʼ 1#2##-ʼ +# #ʼ #ʼ 8ʼ F+J2# E ʼ 8 ʼ & 2E ʼ E 88ʼ
I - I 8+F ʼ #+J 22# ʼ 8 ʼ - F28+F ʼ J < # I -ʼ F2 -ʼ #+#E8ʼ -8JF ʼ F-SF8ʼ
ʼ 8 ʼ I 8 # ʼ +# F-ʼ < - 8 ʼ 8ʼ 2 JF M0 +-ʼ 8E#ʼ 1#2##ʼ HG # ʼ
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*2 -ˢ FJF ˢ F E #ˢ G ˢ#ˢH Jˢ ?ˢ X8+J# F-ˢ G F-ˢJF 0ˢ
+# ˢ #+J 22# ˢ<8+ˢ +8ˢ 8ˢ 8++ ˢ E =88ˢ I8 #ˢ ' 2E + Eˢ 8X
#+J 22# 8ˢJF ˢ8ˢF-SF8ˢ 8 J + ˢ8 `ˢ ˢ 8ˢE =88ˢE8E#
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#I ˢ2F -8 mˢ : F#8- # ˢ 4 ˢ #-ˢ !V 8 ˢ/ ˢ
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8 +#ˢ 822 +F ˢ# G8 #F ˢ ˢ#- ˢ # 8+ˢ 2#8 #G8 -ˢ 8ˢ # 8+ 8-ˢ#
SF# F-ˢ JJ#-F-ˢ -ˢ1#2#F-ˢ& JH E#ˢ ˢ ˢ ˢ ˢ
<+ 18J #ˢ -F ˢ #E8 -8-ˢ/# G 22# ˢ JF ˢ/2 ˢ1#2#ˢ T2-8JH 22#ˢ 8ˢ# E8ˢ
- 2I#ˢJ2 --#-ˢ 8 #G8 +F ˢ # 8+ # -ˢ Eˢ JJ#E8 8 ˢ 8ˢ J F--8+F ˢ
+J G# eˢ G ˢ #*8ˢ 8ˢ18J#ˢ- + G8 ˢ G ˢ8 +F ˢ 8Xˢ
H ##8ˢ 28+F ˢ< - 8ˢ JF ˢ8ˢ ˢˢ@ˢ8ˢ Eˢ JJ#E8 8 ˢF-SF8ˢ 28+8ˢ
E 88ˢ JJ#-#ˢ-F ˢH# #ˢ8ˢ HG ˢ1#2#F#ˢ&F G 22#ˢ1#2##ˢ 2 1#ˢ1#2##ˢ !# +#J#
Jˢ1#2##ˢ"#2E+80 +# -ˢ + ˢ #+ JF2F#ˢ G F ˢ Y8#ˢ8 ˢ +8-ˢ#- @
ˢ 8 -8ˢ#- ˢ1F#ˢ +# F-ˢ#ˢ -- +# ˢ 8ˢ#ˢ G8 # ˢ ˢ18- ˢ # + #ˢF-SF8ˢ
Eˢ #I# 8 ˢ 822#G8+ -ˢ J + ˢ 2#8 #G8 -ˢ 8ˢ ˢ E8E#ˢ< J8 m0+0ˢ
' ˢ ˢ/ # ˢ ˢ/ , ˢ 8Xˢ +J EF # -mˢ +# F+ @ : F#8-ˢ)

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/ ' !' ' ' / , ' 7 ' ; #J +##' / # # # m' ' ' ' + G'

!' $ +I ' $ -SF ' #' 8' & # #J ' # ' 2 #-' # ' # - 8 m

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@ 822F ' # G8 -' # 8+' +# F #' 8 ' 2#8 #G8 -' &F 2# ##' E 8J' EFX#'

+# F-' -8JF ' G #' J G+8G 1# 8 ' # 8+ +F ' F-SF8' &F 2# #F '

8 ' < - 8 ' E8E8+F ' 2#8 #G8 8' &F 2# ##' <+11#2#F ' +# ' 8 ' JJ#-F-' 8-)'

+# F-' 1#2#F-' 8 8 H#' 8 ' 8UF-' 1# F-' F+JH E' 1F F+F-' 8X' # 8+ # 8' 8'

1#2#F-' #- #F-' #' 8' +E82 J' 8 ' 8GF2#' # 8' JF ' H J G ' 1#2# '

&F EJHF #' 8' JF ' & 2E8' 1#2# ' &# + ## ##' 8G8' +J -J# # -' 8' JF '

1#2# ' 8 H E##' 1#2##' F+J8+ JH#' 8' JF ' H E8 ' ' 822 JH' 8G8' T' # 8'

8 ' 2##-' F2 #-' &8J#-#' -F ' <+ c 8+8 ' # ' <+#82# ' #- ' 2# +E ' 1#2#F-' F+0'

J2# E#' 8X' G8 #a ' JF ' 8GF2#-' G8 #-8' F2 #-' 8' - + G8-' 2#8 #G8 +F '

JJ#E8 2#-' F E2' # ' <+ 82# ' 8 E8 ' ; #J +#F-' # + <#' #' 8' / 2 H8+ J' 1#2#F-

& 2E#' 8 ' ; #J +#F-' 8 G# # @ +-' 8 ##' 1#2##' F F4

E##' 8 ' 8UF-' 1+ +#-' +-' H 22#' 1#2##' & 2E#' 8G#-' 1F F+#' JH +F '

+-' + +8#' 1#2##' 28+JH# ##' 8G#-' + +8 +F ' +-' E8+#J#' '& ## 0'

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+F ˢ 21# F-ˢ J +#ˢ 8 ˢ JH2# ˢ 8UF-ˢ 1+ 8+ˢ JJ#-#ˢ < - ˢ
/ # J ˢ 1#2#F-ˢ &F JHF #ˢ JJ#-F-ˢ ˢ 1#2# ˢ ++ * ˢ ##ˢ 8E# ˢ + 28J8 -#-ˢ J# I # #-ˢ
+#ˢ <8+ˢ E 2F ˢ : F#8-ˢ 2F+JH8+ JH#ˢ ; #J +##ˢ F E #ˢ) # +-ˢ 8E#
F +J228G#-ˢ +81 #w ˢ X8+J# F- 2#8 #G8 +F ˢ -F2 +F ˢ # ˢ 8
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9 2ˢ ˢ E#8ˢ & # #J ˢ 8 ˢ X I #ˢ 2F w ˢ : F#8-ˢ + J#ˢ 1# ##ˢ &F 2 G#ˢ ; #0ˢ
J +##ˢ ++## @ X8+J# F-ˢ # G8 -ˢ 8F ˢ 1#2# ˢ +# #ˢ F-SF8ˢ 2 JF ˢ #ˢ E 8Jˢ
I - I# ˢ -F2 ˢ 2 H+ ˢ 8 ˢ -F2 ˢ I J8 ˢ 2 w ˢ 8 ˢ - F2# ˢ -#E8-0ˢ
82-8J 22#ˢ 8 ˢ E# #E##ˢ #ˢ 8 ˢ # F# ˢ -#E8-ˢ #wˢ ˢ J #2ˢ
Eˢ JJ#E8 8 #ˢ d#'-ˢ J+ H#ˢ 1# ; dˢ F+8 H JH#ˢ TG#-ˢ # ++ G#wˢ UF J -w ˢ
8 H ˢ 1#2#F-ˢ &F 2 G#ˢ JJ#-F-ˢ ˢ 8G8ˢ -- +#wˢ <FEˢ 8 HG2# ˢ / F2 4ˢ
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+ #ˢ # ˢ + # ˢ #ˢ 8 ˢ J ##ˢ 8F ˢ JJ#E8+F ˢ FG# F-ˢ I 8 F ˢ # 0ˢ
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J #wˢ +# # w ˢ $+w2yF+ ˢ G F ˢ # 8+ˢ 1#2# -ˢ JH E#ˢ 8 ˢ 1#2# -ˢ &F 0ˢ
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ZJH J2 1#2#F- F+JH E# <+ UJ#<FF- < 8 E# #E## GG80 F E U #8 E# #E##
F- + 2#- # 8+ # - E8 8+-F- # JF +- 8 GF-## 1# # ++ JH# @
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1#2# & +E 28 ## SF#8 I # @ + 8 1#2#F- 82 +E# 8X G8 # ^ JJF2#- +0
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8+JF+## ' F- #--8X #2#- ' 8 ' X I # 2F w ' G +#F- 1#2# - & F#E G# JF ' -F#-
8GF2#- JJ#-F- &F -28 # ' 1#2# ' 82 +E# #F' F ' E ' 8 JJ#-F- ' 8- ' #<-8
' G8 #8 -# F- ' 8 E8 ' : F#8- ' 82-2F G# ; #J +# ' J 8# @ 820
+E ' ' ++ JH ' $+w28J + 28J8 -#- +# ' $+w< -# F- 288 - +F '
8 ' 2 # F ' #w ' SF#8 I # ' # ' H+#- ' &F G 2 '& JH E ' # ' -F + '
<8+8G+# # 8 ' F ' ' J2# ' +JH#< 8 ' # {+ #w ' 8 ' #- +#8 - ' JJ#
-F- ' 811#8 -# F- ' 8 ' I#+ SF# 8F ' JJ#E# ' JJ#-F- 8- ' 8X 8 <2 ' # 8 ' 1#2#F-
" #2Ew0 # 1#2## EF ## ' , Y ! 8 JH ' 1#2#F- / 2 H8+ JH# # ' -F ' <8+8G+#0
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J8+# ' 1F F+# 8G#- 8 +#w ' : F#8- F+8 H JH# 1#2## FG+ ## ; J +## # + # '
+- +# # '&F11# ' +- # 1#2## F+J## 8G#- F-J+#w 8E#w ' ! 8+
+8 JH ; #J +#F- 2 8# SF#8 I # ' # ' H+#- ' 822 JH '! 82 G ; #J +#F- +
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) 4) ' ; 1 v`! ! ' + ! ' ! ' ' ' ' w , ' ' , ! + G
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ˁE +ˁ 2K # ˁ ˁ7 ˁ ˁ !ˁ 9 2ˁ ˁE#8ˁ ! #ˁ8 ˁ#Xˁ2F wˁ
8ˁ F-ˁAEF ˁ < - ˁ #--8X #28 @ X8+J# F-ˁ # G8 -ˁ JF ˁ & JH E ˁ 1#2# ˁ
+# #ˁE =88ˁ - F2# -#E8- #E8 -#F ˁ8 +8G#wˁ8ˁ + F-ˁ8- ˁ#<-8ˁ I8 ˁ
8 -# F-ˁ&F ˁ# ˁ < J8ˁ8ˁ# ˁ J - +#-ˁJF- E#8 -ˁ +J8# ˁ8ˁ - F ˁ -#E8-ˁ
G8 #wˁ8ˁ -- +#wˁ ;#J +#F-ˁ $ #J9ˁ JF ˁ -F#-ˁ 8[G# -#-ˁ8ˁ& J2<#Eˁ
1#2#F-ˁ "#2Ewˁ$ +#J##ˁ 8Xˁ -- +#wˁ#ˁE F ˁ& 8H E#ˁ1#2##ˁ +# #ˁ 8 < +8ˁ
$ -JH 2#ˁ <FEˁ +J8 ˁ 8 J + ˁ 82+F Eˁ ' 8 E Eˁ 8Xˁ !8< 8 +#0ˁ
#-ˁ#I#ˁ#ˁ -F y ˁ<8+8G+# # 8 ˁ 2F 18+ ˁ +8 E #ˁ8ˁ#I#ˁ# E8ˁ U? 0ˁ
ˁ 2F wˁ JJ28-# +F ˁ 8ˁ# E8ˁ # ˁ< - 8 ˁ 82<8 +F-ˁ ' 28J ˁ
$+w28J +U&F 8 -#-ˁSF#8I#ˁ# ˁ H+#- ˁ : F#8-ˁ # 22#ˁ 8< #-ˁ 1#2##ˁ&F11#ˁ ; #0ˁ
J +##ˁ ++8#ˁ " 22ˁ ' #22# ˁ ; #J +#F-ˁ + #ˁ - 8+y#ˁ " #2#-ˁ! 2#-ˁE +
#ˁI# @$8+G 2ˁ 8Xˁ /8+J 22#wˁ#I#ˁ#ˁ -F ˁ<8+8G+# y 8+] m
2Z)ˁ/Z 92ˁ ˁ ˁ) - ˁ_ˁ Fˁ ˁ !ˁ 8 ˁ / ˁ !ˁ7 , ˁ ˁ
/ , !ˁ : F#8-ˁ ˁ/ , ˁ8 !ˁ + # ˁ ˁ) ˁ !ˁ
!ˁ8 ˁ * # ˁ ˁ # , ˁ ˁ ˁ_ˁ, ˁ ˁxˁ ˁ ˁ ˁ
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,D ˁwˁ 2ˁ F2#ˁ % #ˁ !ˁ ˁ ˁ/ ˁSˁ 7 ˁ ˁ% # Gˁ
ˁ ˁ # ˁ/ ˁ) ˁ 7 , ˁ ˁ' ˁ ˁ7 ,
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8 ˁ ˁ% , ˁ !ˁ 9 2ˁ ˁE#8ˁ& # #J ˁ8 XX2F 8ˁ +-ˁ +# #ˁ1#2##ˁ
$ 2 8#ˁ 8G#-ˁ +J EF 8# @ : F#8-ˁ + H#- + #ˁ ; #J +##ˁ ++8# '@ X8+J# F-ˁJF ˁ
& JH E ˁ 1#2# ˁ +# #ˁ -- +# ˁ E 8Jˁ - F2#ˁ<+wE -ˁ# G8 8-ˁ# E8ˁ 8ˁ
J < #I -ˁ<2F+# -ˁ 8ˁ JJ#- ˁ 8-ˁ< +-ˁG8 #-ˁ-Fwˁ 8ˁ I - ˁ8-ˁ+8G# ˁF-SF8ˁ
< 2FE8-ˁ F+G[ˁJ + ˁ8 -ˁ ˁ J+ H#ˁ '& JH E ˁSF#ˁ 1F#ˁ 822#G8+0ˁ
-ˁ#ˁ -- +# ˁ 8ˁ ˁ 8< 8ˁ "#2Ew0$ +#J##ˁ 8ˁ JJ#-[-ˁ 8-ˁ# #ˁ " E+ ˁ1#2#F!ˁ
&F E JH#ˁ 8Xˁ ˁ #wˁ8ˁ& 2EF-ˁ1#2#F-ˁ!8 JH #ˁ1F F+F-ˁ 8Xˁ 0ˁ
#wˁ8ˁ J ˁ ' F#+Jˁ8ˁ EF ˁ 1#2##ˁ F28 #ˁ1#2##ˁ J +#ˁ 8ˁ 2ˁ 1#2#F-ˁ
-J8+ JH#ˁ1F F+F-ˁ 8Xˁ --82#wˁ +-ˁ J +#ˁ1#2##ˁ 82-8J2 22#ˁ 8G#-
+J + 8 -#-ˁ 8 ˁ JJ#-F-ˁ ˁ 2#8 #G8 #-ˁ&F 2# [ˁ 8ˁ& JH Eˁ1#2#F-

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&F# ## 8X' +8G#w' JJ#-F-' 8 ' 2## F2 # ' H E8F-' 1#2#F-' JH# -' #2 '
E 2F8 -#-' SF#8 I # ' /2 H # ' ' #G8+ ' $+w28J +' #22E JH 22 J# SF#8 I # @'
X<8E# # ' I#J +# - ' F+8 H JH# '/2 H8+ ' # ' -F2 ' +8 ' # ' 2 JF' + 0
-8 ' J + ' H 2' 1#2#F ' E8+#J# ' 8 ' E# I #-# ' 8G# #-' 1 J ' <8+' 8F ' 8J'
8X' 811#w' +# F+ m
!2 Z' r ' T_' 92' ! ' '_' ' ' ' A ' # A') '
' ' ' ' ' / !' + ' ' ' # ' ' , ' ' '
'w' ' ' # ' ' ' ' ' ' # , !' + , ' , '
+ ' !V ' ' ,' ' ' ' ' !V 8 ' ' / '
' / ' !V 8 ' ') , ' ' !' 8 !' : F#8-' ' ') k
' ' ' # !' 9 2' ' E#8' 2F w ' 8 ' ' 2F w @ H#+# ' 1#2# '
& JH E# ## ' # ' -F ' <8+8G+# # 8' # ' +J G# ' #X' G ' # ' SF E+
G8-# ' # HFUF-' +# F-' E#8 F-' 8 ' +# F-' J # F-' # ' F ' ' TG+8E8+8 '
OH # 8-' I 82' + 8 ' 8' E # F-' ! 8+ +8 H JH' '! F +28JH' ## ' / #2#F-'
2 1# # ' -F' ' <8+8G+# # 8 ' # ' +# F-' ' J +' 1F F+F-' 8X'
J#w' +# F+ ' +-' '&F JH+ ## 8G#-' 2#E*-' : F#8-' + HF+# '
&F JH E ' #-' F G + 8 -#- m
' 92' ! ' 'w' !' % ' ' # , ' ' ' G'
' ' ' ' A ' 'w' ' ' ' ' ' ' A ,'
' ' ' !' ' ' ' ' ' ' # ' !' 8 '
/ , ' # ' ' / !' 8 ' / ' !' / ' # '
' / '5 !' 7 ' ') ' !' ' ' ' !' 8 ' !'
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& , ' / ' !' ' ' ' ' ' ' !' 9 2' ' E#8' <+# # U80'
UF ## ' 8 ' X##' 2F -' & F-' 8X<FG 'J + ' 8E' ' F +J ' 8 ' J F- # -F '
J F G# ' # ' 8 ' 8 ' -8< 8 ' $+ -< -# # JJ28-# +F ' JF ' -F#-' 82#SF##-' -88 #
' F 'E ' F+J8+ JH' ' 8E ' 8X' F-J+#w' +# F+' +-' J 0'
+# 1F F+# 8G#-' 22# +F ' +-' 8 8 H# 1#2## 8 1 82' E#2' 1F F+# 8G#-'
22#w' " +w ' & 2 - ' JJ#-# ' & JH E# 1#2## F+J8+ JH# ' 8E ' +-'
1#2## HF- JH# 8G#-' +J -J# # 8 ' /2 H8+ J' ' # 22' # ' -F ' <8+8G+#0'
8 ' +E JH ' X<F2-# ' H 2E# 1#2## E8+#J# 8' -F ' +8G# 8' 0'
m
L ' [y4' 92' !' ' 'w' !' 8 ' / , ' / 'S'
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, !' # ' ' 8 ' ' , '%' ' # ' / !' , !!' 9 2'
' E#8' #2# 8+' EF 'U8UF # ' 8 '?XX###' 2F 8' +8-- 2' ; #J +#F-' # + #' SF#8 I # @'
/ #2#F-' #8' ; #J +#F-' / 2 #' SF#8 I # ' # ' H+#- ' / #2# ' F+JH E+1#2##'
/ # #' 8G# ' #a' +# F+' H E8F-' ' J +' 8X' J# 8' J)'
8#-F-' ' JH 8 -# F-' & 2E -' <+ J8+F-' 8X' #E# 8' JJ#-F-' " +'
J +' 1#2#F-' H E8#' '9 822 ' JJ#-F-' # ' #E# ' 2 +J ' ' +# ' E8 8+-F-'
8 ' +8-' 1F F+#' 8G8-' +J -J# # 8 m
4' #<Z' n c.' 9 2' ! ' '_' "' ' !' '% #' / , ' 7 '
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7 ' ! !' ' ' ' ' '~!' # ' > < ' ' ' U # ' k
'#' H' U' e ' ') 'W' ' ' ' ' !' ' 5 '
K ' ' ' ' * 2 * 2 #') '_' ' ' , ' ' !' ' !!'
8 ' ' # ' ' * # ' ' ' , ' ' '_' 'W' ' ' ' ' '
' ' ' ' , ' ' ' ' ' / # 'W' ' # ''
' / ' 5 , 'W' n!' ' !' + # ' / ' 8 !
S' ' ' ' ' ' - ' ' ' 8 ' ' !' / D' '
'W' K ## !' ') ' ' ' ' , ' ' ') GG'
!' 8 !') ' ') , ' !' / ' ' # ' ' ' ' ' ' k
, ' ' ' / !' 9 2' ' E#8' ; 8 8+#-' 8 ' # I ' 2F 8' ' #G' ; #
J +#F-' / 2 #' #c2##' / +JH822 JH#' JJ#-F-' / #2#F-' HG #' *#2##' 20'
#' 1F F+F-' 8X' JH +F ' + FF-' 8- ' 82-F H # ' - <#8 -' -8 # +'
8+ # 8' SF#8 I # ' # ' H+#- ' 8 ' 1#2#F-' G##' JH +8 ' c# ' 2# J' '
$+ c2#F ' # 8+' &8-# -' 8 ' - + G8-' G ' 1 J ' * 8+' 8 - @ / #2#F-' " #2E -'
$ +#J##' # ' # ' I - I # ') G G A ' 8 ' JJ#E# ' " F 8+ +8 '
+J#-' / #2#F-' +# #' # I # ' E' 8F ' 2J#-J8 EF ' -- +# ' 8 ' - F2# ' J <
I -' F2 -' # E8 ' 8 ' + 8 ' 8 ' - + G8-' G ' 1 J ' 8- ' #8 -UF '
<8+' +8G# 8 ' # #' 8 ' JJ#-F-' 8- ' # #' 2J 2+ F-' 8X' # ++ G##8 ' 8 ' EF ' 1F F+#'
8G8-' 22# \' " + 8 ' 8 ' H#' F2 #' JH E#F-' 1#2#F-' ! J 2 G##' <#-J <F-0Z'
2F 18+ 8' +8 E #' SF#8 I # ' 8 ' F2 #' U8UF #F ' E8 I +F ' +8 E # '
<FE' +E18+ ' #22E + ' J F- ' 8 ' P 8+1 +E# ?' '& J] ' 8X' + 0)'
E#J8' JJ#-F-' ' 1#2# ' & 2Ec' 1#2##' +# #' &F ' 1#2##' &F E +##' 1#2##' 8 8 HU ' EF ' 7
1F F+#' 8G8-' ' # 8' JJ#-#' ' 1#2# ' JH JH # m

K A ! ' ! / ! !

' 9 2 ' ' ' + ' w' +Uf !' & ' ' , !' ! ` !"' ' 2 ' ' '
/ !' ' ') , ' / , ' / ' S ' 7 ' !' ' # ' ' / !' & G'
' , !' ; ' !' ' ' ' ' !' ' ' 7 '
' !8 !' S ' * ' ' ' ' , ' !' ' ' '
' / , ' '_' !' ' 7 # ' ' 7 ' !' ! V '
' / #' # ' ' ' , ' ' g # ' , !' 9 # ' ' E#8'
! # ' 8 ' X I ' 2F #8 ' -8JF EF-' F-' 8 ' +#G8-## F-' -F< ' + [28-# F #' ' 0'
J + # 8' H+#- # ' , Y' / #2#F-&82 H#' ; #J +#F-' + #' SF#8 I # @ / 2 ' 1#2# -'
HG # #' 8X' # ++ G#a' UF J -#8' JJ#-F- ' &# # #F-' 1#2#F-' J #' ; #J80'
+8X' # -' +# F+ 0) 0 2#22' ' / 2 # ' $+ < -# ##-' +E18+ 8' +8 E #'
SF#8 I # ' SF#' 8+ ' & J +' # ^' # ' 28G# F-' +8 FF ' F+8 E' ? # J'
; #J +#F-' 2 +2 H#' 8 ' - <#8 -' <#-J <F- ' ' / G + JH' 8X / 8+J8+##8' + FF-'
8- @ + ' ' G' 1F F+F-' 8X' # -' JJ#-F-' EF ' I # 2 +8 ' # F #0'
8-' 2 , f # m
!# ' +B' 1' 9 2 ' !' ' ' _' !" ' ' !' / ' ' + ' '
!' S ' ' & ' / !' ' ' ' ' " ' ' ' ' '
5 ' S ' # ' > < ' / ' !' ' ' / , ') ' ' S @0
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' ' ' ' !' 8 ' ' ' , ' + ' ? ! = * # '
' / i ' ' # ' ' ' , ' ' !' 8 , ' / G'
, 2 ' 7 ' ' `! VG / ' ' 7 ' / , ' ' 4 ' S ' 8 '
' ' ' ' ' , ! V ' #' ' ' # ' !') G'
' ' ' ' ' ' # ' _' / ' , !' 9 2 ' ' E#8'
2F #8 ' 8 ' X X I #' 2F 8' ' ? ! # #J ' J +8 ' # 8+ # 8' SF#8 I # ' # ' #-0'
J82 + @ F+J8+ J ' ' 8 JH ' +82#G# -F-' -8 # +' # 8+ +F ' SF#8 I # ' # '
H+#- @' ' 1#2#F-' 82< +#J##' ; #J +#F-' &8 8 F 8-- #' SF#8 I # ' J 0'
+' ' F+8 H #JH 8X' # 1+ G# 8' UF J - -' JJ#-F-' <8+' E 2F #' 1# +# F-' -F#- '
8E' 1#2#F-' E8+#J#' JJ#-F-' ' ' 8JH ' F+8 E' ' 82-8J 2' JJ#-F-'
) # ' -F2 ' ! #E @ + 2# -' G ' + 8 +F ' <+ < 8+' F #E# 8 '
+#F ' +# ' ' 8J8' ; #J +#F-' ! 8 #' SF#8 I # ' 8 GF-' ' H 2' 8X

#' B C' %'?4' 5= !' (?' (55!' -M I' 87@ (' @!' !' 55(248' 2 !' 3(: 45 ' (?' (55!' , ' 67A' 3' ; ' 49 (5 ' (?' (55!'
- N' 4 =' 3" 55(248' A (1' ; = 1 1 7341' (5 4 4 75' ' Z!' %'?4' '5< (' (55!' , , !

ˢ G JH 8ˢ J -ˢ 8 8ˢ JJ#- -ˢ # ˢ <+ U2# ˢ 8+H J2ˢ ; #J +#F-ˢ / # #ˢ -F8 #ˢ
SF#J I # ˢ Jˢ ##2#F-ˢ / 82 #ˢ ; #J +#F-ˢ 1#2##ˢ ##ˢ SF#8 I # ˢ + 8 ˢ ' 28+ ˢ
ˢ 8Xˢ 2#E*-ˢ JJ#- - ˢ c-'8< -ˢ &F -2 G#ˢ 8Xˢ F-J+# ^ˢ +8G# #- ˢ& 2EF-ˢ : '
1## #2E + Eˢ 8Xˢ #+ 8 -#-ˢ 8 ˢ #+J 228 -#-ˢ JJ#-# U
) ˢ -# ˢ 9 2 ˢ !; ˢ ' ˢ _ ˢ 2 Aˢ ˢ A ! V) , # ˢ , ˢ
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ˢ , !ˢ ' A ˢ ˢ 7 A , A ˢ , ˢ ˢ / ˢ
, !ˢ * # ˢ !ˢ 7 E ˢ - # / ˢ `!ˢ / DG ˢ / , ˢ8 ˢ?!!ˢ
* # ˢ !ˢ / ˢ ˢ ˢ ! V 7 , ˢ ˢ ˢ ˢ # , ˢ
ˢ ˢ _ ˢ ˢ # ˢ ˢ ˢ ˢ ˢ !ˢ ' ˢ
!ˢ / ˢ ˢ , ˢ !ˢ 9 2 ˢ ˢ E#8ˢ #ˢ #- ˢ 8 I ##ˢ 2F Uˢ &F E # G8 ˢ
JJ#- -ˢ ˢ 2 ˢ ##- ˢ &# + o #F-ˢ ' 8J # ˢ # I # ˢ # ˢ -F ˢ <8+8G+# # 8 #ˢ
/ #2#F-ˢ " #F2#8ˢ " +#- #ˢ ' 8JH ˢ JJ#-F- ˢ F#+8 H Jˢ & ' / 2 H8+ ˢ JJ#-F-ˢ ˢ
JH 8 -# F- ˢ 8 GF-ˢ 1#2#F-ˢ / 2 #ˢ $##828J +ˢ 2F ###8ˢ SF#8 I # ˢ H 2 ˢ
+ +ˢ ; #J +#F-ˢ ++##ˢ SF#8 I # @Z 8 GF-ˢ 1#2#F-ˢ H ˢ # ˢ # ˢ < - 8 eˢ
/ 2 H8+ Jˢ ' # 22ˢ # 8 ˢ +J8 #ˢ JH 3ˢ # 8+F ˢ 8 ˢ +8G #ˢ E8ˢ -8< 8 +# 2#ˢ
8+ # ˢ UF+8ˢ -8 # +# #- ˢ 2J 2+ F-ˢ 1#2#F-ˢ 8 8 H#ˢ 8Xˢ 2 ##8ˢ +#+ˢ
F+ mˢ , Yˢ 0
r ˢ # ˢ I#ˢ !ˢ ˢ ˢ _ ˢ ˢ !ˢ / A ˢ ˢ 8 ˢ ˢ #=ˢ
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ˢ ˢ + ˢ wˢ ˢ + !ˢ 9 2 ˢ ˢ E#8ˢ <+# #ˢ U8UF ## ˢ # 8 ˢ E#8ˢ 8+JF+# ˢ
8 ˢ X I ###ˢ 2F -8ˢ 2F #?8+ ˢ +8 E #ˢ I - ˢ ˢ +81 82#-# F- ˢ & JH Eˢ 1#2#F-ˢ
+# #ˢ I # E#J #ˢ -F <-# ˢ E88#-ˢ # ˢ F ˢ I 8 ˢ #- #ˢ 8+ ˢ F 8+ ˢ Bˢ 8 ˢ I #J +# ˢ
E8ˢ 8#-ˢ G ˢ 8 <2F+# #ˢ 8 +F ˢ E8 8+-#ˢ -F ˢ # ˢ 12F # 8ˢ ! FJ ˢ 8 ˢ # ˢ ! 8 sˢ
' ˢ Cˢ ; .ˢ J !ˢ !ˢ ˢ ˢ wˢ !" !"ˢ !ˢ 9 2 ˢ ˢ E#8ˢ # 8+ˢ EF ˢ
U8UF # ˢ 8 ˢ > X#Xˢ #F a mˢ 7 , ˢ ˢ ˢ E8J8--# ˢ ' ˢ !!ˢ
/ ˢ # ˢ ˢ !ˢ 8 A ˢ ˢ , !ˢ 1F F+F-ˢ 8Xˢ +#F # +F ˢ JJ#
-F- mˢ ' ˢ !ˢ ' # ˢ ˢ 7 ˢ , ˢ ˢ A !G * # ˢ ˢ
7 ˢ / , ˢ 8 ˢ / ˢ SF#8 I # +Z@ 8 G #ˢ !ˢ / ˢ ˢ !
_ ˢ ˢ !ˢ # ˢ <#-J <F- ˢ 8 ˢ J - # # ˢ J2 +S-mˢ SF#8 I # ˢ # ˢ > < ˢ / ˢ ~

KB ! ' ! / ! !

j+ , ' / , ' 8 E2 ;' ' ' w' ' ' ' ' ; #J +#F-'
#0+8#' 8 ' $8+8G I # F-' F- ' 8 ' <+) J#<FF-' JH +8 ' # 8+ #0W m' SF#8 I # '
#F' > <

tB' E n! 92' g !' ' + !' w' ! !' K G ## ' ' ' ' # G'
, !' $!' ' # , (' $ U(' w' ' # ' / ' " !' / ' ' ' # '
, ' w' ' ' ' ') ' ' ' ' , ' ' ' ' ' '
' _' ' # ' ' / ' , ' ' ' ' !' & ' G'
' ' 8 ' / , ' + ' ' ' !' ' ' ' '
!' 8 ' !') #' w2 #' # ' &B' * # !' / ' ' '
, ' ' !' / ' # ' , ' ?' , ' ' !' & ' / '
' / ' , ' ' ' -' ' 8 !' 9 2' ' E#8'
! #' 8 ' X' 2F ^ ' P 8+1 +E# ' J F- ' ' G8 #8 -# F- ' 8 ' 8 I ?8+- @ F0'
JH #2' 1#2#F-' 8 8 H#' 8X' F-J+##8' 8J#-F- ' 8 ' 8UF-' 2#F-' # ' #<- ' < + ' JJ280'
-(' H8E+ 2#-' 2 <*E8 -' - 8+##' + 8' < - SF ' + J F-' 8--8 ' <8+' I# '
' 2 +# ' 8 ' G ' ' H 2' 8J#-F-' 8 ' J 8' #<- ' <#-J <F-' ' + J'
; #J +#F-' ! 8 #' # I # ' # ' -F ' <8+JG+# # 8 ' ; 2F+JH8+ J2#' # ' # '
8 I 8J F-' < - ' 8F ' +-' 1#2##' & # 2 G#' 8G#-' G8 ##8' JJ#-#' ' -- +#8 -#0'
F-' 2 ' ? JH2# ' 8J#-F-' E 2 -8 ?' 8+ JH ' <+ J8+F-' 8J#-F-' ' '
' ##-' ' J8 ' 1F F+F-' 8X' J# 8' 8J#-F-' < - SF ' F18+0'
+8 ' <+ 8E -' ' +8 E m
U ' +B' ' 92' ! ; 2 ') !' w' !' 19 2' ' E#8' & # #J ' 8 '
XX#' 2F 8 m' ' ' # ' ' # ' $#X828J + ' / G ' SF#8 I # ' # '
> < !V / ' 4 ' SF#8 I # ' / ' ' / ' ' # ' '
' 8X' G JH 8F-#-' 2 JF- 8 # ^m' ' '
) ' ' ((£' 92' !' ' ' w' ' ' ' !' 9 2' ' E#8' + + ' _' '
2F 8!] V ' ' <#-J <F-' & , ' & , ' SF#8 I # ' # ' > < ' ; +-'
' #' ' 8G#-' 2#JH# - m@ ' ! ') ' !') ' #'
' # ' 8G#-' G8 [# 8 @ +J ' ' # ' J2#<-#-' ! 2#-U' # ' H J' ' , AY

B C' 49 78' ; (8 ' ('=' K' ^' ' MD - $HE' '5 4 ' 2254(8' 8; '@ (' 48 ' 4(?45" 5(57' 67(' = 78' =?49!' 5?4'
w467' 7 ' =?' ; 41' 5?24' (57'5 ' ; 8" (2?4' (5 '6771 ' 5=5' 4884' (7 = (@2'71 !' 2A4' (1 (57458'8' ; (8&'
' ('=' 49' (2''8' 55(2' : 78' 4 ' (: &'5 '584 ; =' 45 ; 5?(' 48 !
B , C' '4' 48 ' ((578' A A' ; =1 !' !M ' 7 ' '5' 55(2!' 2 !' @!' , -!' =' 3" 55(248' (U (5" ; =1 !' @ A ; ; &'
?75 ' ' ^C ' =2' ?4<4?" (55=' M ' ?'4' , , ' 7 78 ' ' : = (' 14 '?'(5(' 7 =@(' ' ; ; '?45 (2" ; 4(&'
' (2'8!' ! 3E' ' ` ' ' ' !' ' @!' Z &

!   !   !   !   K.

+- /   #   )   #   /   1F F+# 9 8G#-   --82#w ㎡   8
+-㎡)   ! 5   K-   # *   #   TG#-   -- +#w ㎜
) Ej P# 6 92   !   ;   4   @ 9 2   E#8   + #-   8   X##U
2F w ㎜@   J+ J   !   #   <#-J <F-)) /   ,   8   2; 7
SF#8 I #   #   &   00   +- 5   4 ,   /   #   # /   ,
TG#-   +J EF   #w ㎡   /   -   ,   S   #   ><
!   !V   ,1   /   ,   B   @
/   _   #   8   K
g2   #   ##   )   #   !
)   ,
! V '   )   ,   !   +0
J+   F! J28+#JF- <+ yJ#<FF-   82#G# - -   # 8+ #w SF#8 I #   #   H+#-   <FE   -!?
+#   J 8#   '   82+F   E   JJ#-F-   '   J   +   E 2 -8   ; 8J #G 2#
8X J   8   +E#   #   8- 1 J w   1#2#   +#   #   <2F+8- SF   1 J w 1F8+8   8   < +8
$ +#J# #   # 8+ #   8   J   J8+   #   8- 1 J w   H28 #-   E#8 &   # #J   8X0
8+J#   #   F   SF 28-   1 J   8 -F   8 E#8   #-   &   # #J #   8   <2F+#   #
$FG#2F   Jw- F-   JF   2##- E# I 8+-#-   E#- +#   F #   #   8UF- E   @   J+   H#F-
?&   JH   E -#   GF2   +8 J8+   8   #   ##   H   J   ㎡ ,   Y
)   %4   9   !   _   !   9   2   E#8 #   8+ EF
U8UF   #   8   XX# I   2F   w ㎡   : F#8-   '   #   K   ,   /   ,   '   G
; #J   + [J 8# ㎡   8   +-㎡   )   !   '   #
'   #   TG#-   F-J+#w ㎜0) |`   !   #   '   '   ,   !
/   !   '   # $+w2#F   #   8+   G8   #8   -8-   #   SF   JJ#-F-
8-   1#2#F-   82   # @00$+w2#F   #   8+   F-J+ G# -   #   SF   JJ#-#   -F   ㎡
'   )   w   /   #   w   2##   F2 # @
&   #   ; 2   G   #   p`     2     `   n   "`   SF#8 I #   : F#8-   %   #

+ 9 . 48   48 (4 37G78 (55   5((5 7   '5   55(2' : 78   2 =5! (? (55!   4   4; =!)   4   1 (8?' (4   27?'J
;=5<4   7 (5?(1 ;71   7; (5 '   %=; 4   @42 1 (7   ] 2=88(!)   (5?I8 @=@72(5 '67' '48
4   42' 3   9@2'; !   <<'; !   ' ! ; !   ,   75?4 @(4   5=5   (5 7 1   35'; '8   85?4 '(1   3 '8 '(''8 '5 1 = 4
<7'884 ?'4 : 78 67   : 78?(1   <48 '8   4 '(1   (8; 3(2' : 78   4   =1 '5'4'8   4?'; ('=5R8   ; 248'(4   84   27?p8
L1 5(8 '; '8 494   ; ' (4!)   4; 7 8'=548 4 (5   '8 (4 @24 7'5674   1 '2' (48   4   3(8 '27?'(!   %'?4   44 4J
71   7 45' , ?'   '5   7; (5 '   '884   !   (?   ='5   '22(1   57?4 8467' 7   #   #   5=5   (?4= 57&
@4 7 (4884 '5   45 7 1 !   =5<4   5= ! ?4   72 =   '87@   (@   9'   !
0   9

$+*828J +#-m / A !' ' ' ' / , ' ; '#J +#F-m + ' ' '
+ # ' ' / , ' , !' 8X' +J EF # #' JJ#-X#- m
+ .' ' 9 2' ' '_' "' ' !' ' ' ,' ' 4 ' !'
' # ', ' ' , !' ' # ', ' 7 , ' #G'
' / , ' , ' 1F F+F-' 8X' +J EF # 8' JJ#-F-!]G V '
;) , ' !') , , ' ' ' , !' ' A ' #I # ' # ' -F # ' <8+8G+### 0'
8 ' !] V # ', ' 7 , ' / , ' / '_' / '
SF#8I # ' # ' & ' ? 7 ' , ?' / , ' A#' # , ' , '& ' , !G '
/ ' ' # '_' * # .' ' , ' ' ' ' * D # '_' ' G'
, ' ' ' , ' !') #' ' # '_' #' ' , !' ' '
' ' ' / 'S' #' & ' E' ' 2' 8X' G JH 8 -#-' 2 J##-'
8 # 8' JJ#-F-' $# 82#F '# 8+' G8 #8 -8-' 8 ' -- +#8 -8-' # ' SF ' JJ#-#' -F '
<2F+# #' -- +#8 -#F ' # ' SF ' JJ#-F-' 8- ' F+JH E' 1#2#F-' & F 2 G#' 8X' 0'
G8 ##8 ' 8 ' 8G8-' <2F+# #' -# #2# 8+ ' 2#2#' $##818J F-' JH +F+ ' # ' 2 # '
SF#8I # ' # ' & # m' , Y
#2 ' -' U ' F?Z 9 ' !' '+ , !'_' ' ! V / ' !' ' ' ' ' G'
' ' !' / '8 !' ' ' / # , ! V # '
') A ' ' ' , !' 9 2' 'E#8 ' ! # ' 8 ' X I #' 2F a '
H 2' 1#2#F-' E8+#J#' ## '# '-F '<8+8G+# # 8'# ' +E JH 0) 2F 18+ ' +8 0'
E #' I - ' ' 2+#G##- @ JHE G8+ ' '& J ' 8X' + E#-8' JJ#-F- m
^ 2 ' r ' ' c# ' 9 2' ! ') ' <+# ' 18+# '_' ! "! ' 2F a m' ' '
, ' ' ' ' G !' !' 8X' # + G#-8' UF J - -' E8J8--# m@'
/ ' # ' 1#2# m' ' #' ! V ' ' ' ' ' 0'
JH +8 ' JHEF8 -#-m' SF#8I # V / ' ' SF#8I # ' # ' / G '
8 @ : F#8-' ' ' ' ' ' ! V) ' ' '
'_' ' ' # '_' ' , ' ' ' 5 !' & 8E-J82#J' IT 8+ #2#-'
! J8+E -' 8 ' J - # # ' J2 +F-' 8 ' <+ 8J#<FF-' +82#G# 8' 8 ' <#8 8' " E82#0'
+F m' SF#8I # ' # ' H+#-
C' U' 1# # ' 9 2' !' ' ' '_' 4R4' , ' ' !' / # ' ' G'
' ' / ' +' # ' ' ' # ' 4 ' , '
' 5 ,' 4 ' ' ' ' ' ,' 4 ' j' 7 ,

B2C' %'?4' 55(248' 2 =5!' (?' (55!' , ' @ ' , Z!' + ' 8 ' + F#' #U -' 28-' w+ ' J + F J
(5 4 ; 4?4 4' ' Z!

' / ' +# ' / ' !') ' / ' 8 ' ' G'
' ' A, ' ' '_' ' 5 ' !') ' ' A ' A ' ' W ' ' G'
' ' ' ' / ' / ' # ' / ' ' T' 9 2 ' '
E#8' + #- ' 8 ' #X' 2F -' G 2 JH ' ' JH2# ' 8X' +J + 8 -#-' +# F+ '
8G #' ' JH E ' 1F F+F-' 8X' 2 o8' JJ#-F-' ' 2#8 #G8 +-' &F 2c ##'
' 8JH+ # ' 8 ' ! #28-' 2 # -'JF ' 8 ' /2 H8+ J' ' ' 8X'
#+J F 22 8' +# F+ ' JJ28-# ' H8E+ 2#-' 2 <#E8 ' 2F 18+ 8' +8 E X' J
F- ' ' ' ##- ' 8 ' 1#c#F-' " E+ #' 1#22#' &F E J2##' + < F-' ' 82-' # E8 ' 8 '
JJ#-F-' # ' J -<8J F' JJ28-# -^' + H JH' 8X' G JH #8' --82# -' J 0'
F- F-m_ 2##' F2 #' ebA !rV) ' / ' 1 h !V ' / '
' ' ' ' [' ' D 2 !]V ' ') ' ' ' # '
8X' F-J+#a' JJ#-F- m') # ' ' ' ' A ' A ' , '
' ' ' ' ' ' &#+ ' 822 ' # ' # 8+ # ' ' H J ' SFa' E8- +FX0'
8+F ' -8G8 8- m040 W ' ' G, ' ! J8+E -' JH 8 -#-m' E + #I# @0'
' ' ' ' ' ' # ' 8X' #+ 8 -#-m' +# F+ @)
' !7 ' / A# ' ,' ! ' / ' (' ' 8 ' 8X'
22+ G#a' JJ#-F-' ' # + # ' 8 ' ' +8 E m
Uf' # Z' 9 2 ' ! ' ' ' !' ' 7 ' / ' , '
' ' V ' / ' !' 7 ' ' H# ' ' ' , !'
' / , ' ' ' ' , !') ' ' ' , '
' a '# !' ' ' ' ' / -' , !' ?' ' 8 ' '
' ' S' # ' >< ' 9 2 ' ' E#8' <+# #'U8U'F ##' 8 ' X X' 2F a ' '
/2 JHF ' ; #J +#F-' 2 8#' #I# ' # ' -F ' <8+8G+# # 8 @ ' + +8' 1#2#F-'
/2 #' 8X' G JH a' 2 JF-' 8 8' JJ#-F- ' ' ++ 22' #2#-' #a'
JJ#-F- @ JJ28-# ' H8E+ 2#-' +E18+ 8 -#-' E#+F ' ' 1F2 # 8 ' + ' ' F +J'
8X' J#a' JJ#-F- ' ' #2# J' $+a28J +' +E JH F-' SF#8I# '# ' H+#- m'
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' F-' &# + # ##' 1#2##' 82 ' ?' / #2# -' #G + #' 8X' 2#w' JJ#-F-'
X8+J# F-' # G8 -' <+wE +#F-' JF+ ' ' +# ' E 8J' JJ#-F-' 8-' 8X' / 8+0'
J 22#w' # #' #' 8' 1#2#F-' " #2Ew' +#G#E 8' &# + # #F-' 1#2#F-' 82 #' 8X' 0'
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+E82 J # ' +# F 8) 28+8 J2#F- ' JH E # F# +8G F < - 8F
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G8 # ' E =88' I8 8+F ' I#+8-' E# #E##' #' 8F ' # -8SF8 8-' 8 ' J # F-0'

-8+F ' # 8+#JF ' 8 ' F G + ' 8 ' E8U8J8+F ' +J8 ' 8 8 + E# 8' 8' -0'

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E#8ˁ# #ˁU8U ##ˁ8ˁI##ˁ2F 8 0)/#2#F-ˁ&F E +8 ##ˁ '& 82ˁ JJ#- -ˁ ˁ1+ +8ˁ
E -8ˁ8ˁ 82#SF# -ˁ # 8+ #aˁ* 8+ˁ8 -ˁ,#ˁ8ˁ ˁ - 8ˁUF+ 8 ˁ< +ˁ 8
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2 #8 -8-ˁ8ˁ #+ 8 -8-ˁ 8ˁ & -28 #F-ˁ ' JH E ˁ 8Xˁ 2 # 8ˁ JJ#-F-0ˁ
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J2#8 82ˁ G #ˁ ˁ ˁ ˁ J - # # ˁJ2 +F-ˁ8ˁI8 8+ #2#-ˁ! J8+E -ˁ8ˁ 2F F-ˁ
E <#IF-ˁ 2#--##ˁ ' + 2J ˁSF#8I#ˁ#ˁ H+#- ˁ#ˁ 2F 0/# EG2 -ˁ#ˁ F-00ˁ
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H 22#' ' J +' 8X' 2#8 82a' F+8 H G#' 8 '<+ 18J F-' 8- ' ' 8E# '# '
H 8+8E8# ' E < #IF ' E' ' J +F ' J#a ' 8 'E8E# ' ' +# ' $+? J#0'
< F ' 2#8 82 -' F+8E G#' 1#2# ' / 2 #' ' 82-8JH 22' 8G#-' 8 +# 8 ' SF#'
I8 # ' # ' E F ' ' +# #' # 8+#JF ' I8 # ' < J#1#J 'H # ' ' 8G8'
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#-8' <FE' ! XF '# G8 -') , ' -8 ' 2# ' F<+ '+#<F ' 2 JF-' ' JH ,2Y'
'# #8+F ' 1 8EF-' UF+ 8-' <8+' 82#SF# -' ! J +F '<2F+# + ' JF ' V
JF2 ' 8-F ' <+* '# 8+J8--# 8' ' +# #' 8 ' E# #E##' F- + 2#-' # 8+ # ' E#J #^'
E# #E##' ' # $8!' #-' 1#2#F-' ! 8 H +##' 8X' +# F ' 8 ' F+J 22' 1#2#F-' 2#'
JJ#-#' ' / + J#G8 #- ' ,AY' / #2#F-' H 2E#' ' H E + '# ' -F ' J < #I# 8'
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G#' #'8 ' 1+ +#-' -F# ' E =88' # #8+F '< 88 '8 '1 8EF-' # ' --82# U' 8 ' # ' #--0'
+# 'UF+ 8-' <8+' +82#SF# -' # 8+ # 8 ' JF ' VJF2 ' 8-F 'J + ' ' E '8 '
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ˢ ˢ ˢ / ˢwˢ ˢ ˢ ˢ ˢ ! # ˢ ˢ , ˢ ˢ' Gˢ
!ˢ ˢ ˢ ˢ ˢ / ˢ(ˢ 7 ˢ / G # ˢ ˢ ˢ
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ˢ # ˢ ˢ ˢ4 ,ˢ ˢ, # ˢ # G ˢ Gˢ
ˢ ˢ ˢ/ # G, ˢ4+ˢ ˢ ' , ˢ(ˢ ˢ/ ˢ ˢ k
ˢ wˢ 2ˢ 2 #ˢ #ˢSˢ ˢ ˢ a ˢ ' ˢ ˢ8 ˢ ˢ ˢ
7 , ˢwˢ !ˢ ' # H ˢ ˢ ' # ˢ ˢ # ˢ ˢSˢ
ˢ ' # !ˢ & ˢ ˢ/ ˢ # ˢSˢˢ / 4 ˢ 9 2ˢ ˢE#8ˢ<+# #ˢ
U8UF ##ˢ8 ˢ ˢ2F ^ @ ! 8JF E -ˢ F-ˢ-F<+ ˢJ8H 8-# F ˢ8ˢ ˢ ˢ J + 0ˢ
8ˢF-SF8ˢ Eˢ FF ˢ HF JˢSF ˢ-F ˢ, Y@ #2#F-ˢ #G8+ #ˢ ' F +Jˢ JJ#-F-

B Cˢ = (5?(ˢ877ˢ 4 : (ˢ3;4;ˢ49ˢ6''': 78ˢ 34 71ˢ 55(2'7 (ˢ ; '@ = 41ˢ884;72=ˢ , 1=ˢ'5477 uˢ<2= 7'884ˢ
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8- ' <8+' m #F+JH8+ JHF ' # ' # F-' 1 #2# +F #' #J#' 8 ' / JH # ' X8+J# F-'
<+#-E +#F-' JF ' F+JH8+ J ' ' +# ' F-SF8' / JH + ' F+ H8# 8 ' / #2#F-'
1#2##' JH2# #' JF ' #+ 8 -# F-' # I EF ' 2 # ' E 88' 8X<FG ' -F '
J - + ' 8 +F ' 8 ' JJ#-#' -F ' # #' 8X' # ++ G##J' + J2# #E8 ' #' 8 ' ' 82 2'
8 ' 1#2#F-' + JH#' 1#2##' G # ' 8 ' 2##' F2 #' N # ' SF ' ' # ## ' F+JH8+ JH'
' +# ' 11# # 8 ' +# ##' JF ' / + J#-' 8 ' JH2 #- ' , Y' FG+ #F-'
' G ' $+ 828J +' +E JH F-' SF#8 I # ' # ' 2F G +# ') 8JF-' ' F0'
JH +' 8288 - +#F-' SF#8 I # ' # ' #22E 1 m
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9 2 ' ' E#8' # 8+' EF ' U8UF # ' 8 ' XX' 2F Z ' 8+ #F-' F-' -F<+ ' J8 8-#0'
F ' -F<+ ' ' ' J + # 8 ' J +' ' 8+-J8 #2' 8X' +J 2 GE# 8'
+ FF-' 8- ' <FE' --' <8+8G+# <+F ' F+JH8+ JH' ' +# ' EFX# ' 8X8+J#0'
F ' +E JH ' JF ' I#+# F-' # 8+ #-8' -8JF ' 8 ' -# ' -8< # ' # #' 8 '
' # E8' ##-SF8' <2 # #8 ' -8 ' E 88' E# I #-# ' 8 + ' +#1 #+# ' 8 ' E8+82#SF8+8'
F- + 28-' ##' J - + ' JUF- ' 8 ' #8+F ' #<-#' <+ -E F E#' & 2 + E# ' 8 ' J0'
J#-F-' 8- ' & 8H E' 1#2#F-' <+E82 JH#' ' +# ' 8 ' J +' ' JH +'
1#2#F-' 8G#-' # + G##8' F JH+ 8 ' 8 ' E#28J F-' HF-' ' 8 # ' 8 ' 2##' F2 #' # '
#- ' 8X<8E# # 8' <+ 8E +# ' $+#82#F ' <#' 8' J + ' G #8 -8-' 8 '
J + ' -- +#8 -8-' <8+' F+JH8+ JHF m' # ' SF ' J8J#E8+F ' F2 # ' # 8+' SF -'
#2#--# #' I#+# ' P" 5 ' K ' ' ' * # ' _' ' 5 ' ' ' _'
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, Y' E' 8- ' JF ' ' ' ' # ' 8 ' JF ' + !' ; #E8' 2 2 ' E' # 2' ' < G' K '
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G F- 8X 2#8 #G8 +## JJ#- - 2 #8 -# F- # <+#82# /#2#F-
8+-J8 2## 8X +J 2FGE# - JF -F#- F 8+ J2XXXI I8 #F 8 2 J#- + -0
+# #- /#2#F- 1#2## !8E # 8X " 28 G#+8 JJ#-F- + +8 ' # +E 8
- + G8- 1 J -F +F # # 8 E8 2 J /#2#F- 82-8JH 22# IF2 8+ F- +
2# IF2 8+8 # J 12#J F #- & F- J F- <8+ '/2 +E m # SF
J8J#E8+F F2 # _ F228+8- 8UF- _ $+# J#<8- #22#F- E F-
) <nKU # 92 ! _ w , !
,# / ! w , A , ! 9 2 E#8 U8UF 2# 8 2F ^ 8
SF + F- F- -F<+0 -F<+ E#I#- 8 F- #--8X #2+- m / G
, / / + FF- 8- @ ' G
8 , SF#8I# # >< 8 # +- # 8 1#2##8U
!V 8 +-m / , ! / , #D n 8G#]
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8 8 H# m
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0) * # 8X o- + 2#- -- +#-8m + FF- != % #) G
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' +# #J2# E =88 JJ#E# & #JH EF ' 82-8JH 22 8 #IU < - 8
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<FE ! 2I 8E +FX 8 #I# E <+ fE EF -SF8 8 "F +8 8 0
- F2# I8- 8 J < #I - # F #8+ #28- ' +#F ##- # F <+ < 8+ J < #I -
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, E !) # / ##F- 1#2## + E 8# E8
JH8 -# F- JJ#-F- E 2 -8 JF##- J + #F- J F- '&F
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c 8+#JF J F- F F# 8XJ8< < +# F #+# & 2EF- ' +
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h H8 Ed E 8 m ' / , w / @ ' G
, / JJ#-# <FE 8 # <8+m * # / _
8 <8+m - , / !@ I f 8 G- G ' 1 # ,
JJ#-F ! <8+m ' & 4 ! ' , # <#-8 # +8 m@ ``W W
8 # " F 8+ + # 8+#J#m ###182#J# 8+ + FF- 8-)@
5 G5 , # 4 ! , & ' # 4 8X 2 # *
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- ' S & FX +#FG## 1#8 2#- *a SF#8 I # m ;
' # SF#8 I # 5 G , / + I f #JF-
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, P w , f f, # w 5
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8 X X ### 2F a X8+J# F- JF+ F+JH8+ JH ' +# E =88 I - I
#G+ +81 # 8 I # g I # F # 8 - 2)) +F 8 +J8- 8 - F F
<+a E - 8 J < #I - <2F+*1 # - # E8 JF+ -#E# F- 8 +8 F- <+8 # -#- 8 JF+
-#E# F- " #2E ! + + 2# $2F I #a # G8 8- 8 # F E # 8- 8 < +8
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8- # #- 8 E8E8+F 288 - - & 8 E 2 c- 8X<82*8 E F 0
E # < +F #- " #2E - $ +#J#F- ' !82 G ; #J +# - ++##
SF#8 I # m q R
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FX +8 -F ?#? # _ , 8 !) # 8 1#2# ' +#J# 8G#- & 8-# +F m
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B ! ! / ! !

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' # / , S # >< 9 2 J2#8 & # #J 8 X ###
2F - H - JH -F<+8 F- 2282#G# -F- # 8+ #*8 SF#8 I # # 2F#- <FE
#-J82 + @ ! EF- # 8+ +F <FE / # E # J 8 GF- # 8 <FE F #0
8 F +8-- 22# , Y * 8+ J28+F 8 < <F2F # 8 JF F+JH8+ JH
' +# -F<+8 8G8 # 8+ # 8 8 JF ?&F # 8 +JH#8<#-J < #0
8+ # 8 8 JF 82- ; #J +# $ +#J## 8 JF &FJ# F- # 8+ #1J -# #2# 8+
J 18J8+F +E# # 8 8 +8GF2 - 82# +8- SF 1 J* - 1F8+8 8 F SF
8+ # $+*8E +#F- 8XT1J# F- JF F+J8+ JH +81 # I - I#
8 8 + <F# 8UF- 1 8 # - 8 I8- F-SF8 E # + < - SF J < #IF
18J# " #2E 82-+ #F ' F +J & 2EF- 1#2#F- H E8# # I #1+ 822#G8+ -
-SF8 +8 28 # 8+ # 8 # F# +8G F -F2 +F 2#8 #G8 +F
<8+ I# 2 ## 8X8+J# F E# JF U+ # 8 -FJJ#EF ! 2 I 820
JHJ8 G# 8 1#2#F- 1#2 [JH2# # # I # 2 # 8 I - I # F-SF8 $ 8+ / 8
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B C 2' =5L45 7 1 ?4 6 (567(1 (: 3= ; ?' 4 87 1 '5 375 ; (557 1 ; =5G' ; '75 (2 475?4 1
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] ('(5! 7 ; ! @! !) =5<4 55(2! 2 ! (? (' 1 !2222 5 = ! @! Z - !

' +# ' I#' E' <+-82I EF '#'E## #E#F '!8< 8 +# 28' # 8+ ## '# #--F-' '
F+J8+ J2# ' ' +# ' F+J8+ JH' #I#' 8++8- +#' # # 8+8' &F 2# #F #' '18- '
#JH 82#-' F-S 8' E' 28 '& # #' /#2#F-' ' G+ ##' E8' JH J -#0'
F-' SF#8I#'#' H+#- m

oC' J' ;.' 92' !' ' '_' " "' ' ' ' A ' ' '7 '
/ , '8 G' S'#' >< ' / ' ') 4' !) , , ' ,'
' '/ ' ' G' 5 A ' # '' / , '8 # 'S'
' ' ' ' ' A ' ' ' A '#'H' ' 9 2' 'E#8' 2F -8' 8' XX#X'
2F 18' 82 +8' '/ J + ' ;#J +#' !' +8 E #' SF#8I#'#' H+#- ' H 2'
?& 822' #c2#F-' &F E +8 ##' JJ#-F-' ' 8E ' ' H822 J 'E 2 -8' " + 0'
2 H '1#2#' F+8H E# ;#J +#' +#G#E#J' SF#8I#' 8--#-' F E ##-' G8 8+ 2# 8+'
#' # 8+ #'#'H J' m

C' J' ((a' 92' _' ' '_' A' !' 8A A' ' # '
/ , ' 'K ' ' ' ' / , ' ' / G
, '# '8' 4 !' ' ') ' '5 K -' ' ,!' '
5 # , ' 2r' ' , !' / ' ' !' '8 '_'8 !' _' 4 #A !'
' ' !' ' !') ' ' ' ' '# , ' # '
/ A' / !' ' !' #' '' ' , ' ' !' + # '
H' '' ' ' ' '_' ' #' / , '_' ' A 'J' < J8' _'
' 'c' H' ' # ') ' !' ' ' ' ' 4 !' ' '
' ' ' A A' S'#' >< ' 9 2' 'E#8' #' U8UF<##' 8'
X '2F # ' &# + # #F-' > G ' ;#J +#F-' 1E0$ +#J##' SF#8Ig'#' H+#- '
82-8JH 22' ' J +' 8X' +J + 8 -#-' + FF-' 8- ' # 8+#J#' J'
& E8H E ' '" #2E '$ +#8' JJ#-F-' '" 22G + ' #'8' ' -F '1+ +8' 822F '
G F '# 8+' ' +#F# '8' +81 # -' 8' +G# 22# -' #-- +#'J F- '
22' 1#2#F-& 2E#' 1#22#' 1#2##' JH2# #' # 8' +8G F ' #+J< 22# 8' J'
J8+ G' ' F+JH8+ J' JJ#-F-' ' # 22 ' X8+J# F-' # G8 -' JF ' F+JH8+ 0'
JH ' +E# JH '8' E' J 2<F ' '8' +8I8+-F-' 8- 'JF '< J8' 8' + 2#0'
-' G '#'H J' ' ! + G8-' ,G8 #-Y' & JH E#' 1#2##' JH E#' <8+' 2 0'
#8 -8-' /#2#F-' 1#2##' EFJ #' <#-J <F-' #-- +8 -#-' SF#8I#'#' H+#- m

') ' J' %' 92' !' ' 'G" !' & ' ' ' ', A '
' '/!' ' ' !' ' # !' 5 ' '# , ' #' ' ' !' ' '
+ !' 2' 4 ' ' ' ' ' ' ' ' !' / '_' - # !'
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'/ !' ' '8 ' '# , ' #'' '_'' '
' , ' ' ' ' ' / !') ' '7 'S' 8 '
!' ' ' ' ' '; !' 9 2' 'E#8'# 8+'EF 'U8UF # '8'XX'2F e
#8'8-'SF + F-' F-'E8J# F-'-F<+ ' '-F<+ ' ' ' J + # 8) + F-'
J ++#<#' 8G8 '9# 8+ # -' # ' H J' '#' 8E#' 8- 8' F-' 2 +F+'
<2F+# +F '8+ ' 8G+# FE '#- '<+#82# +FE#' 8# <8'8'1 J# 'I - # F '
8' JJ#-# #-'H # F# ' I# 2 # F ' JJ28-# +F# ' 8'! J +F ' # 8+ # ^'
#J +F ' 8' JJ28-# - #J +F ' SF 8'EF+ I8+U# 'F-SF8'SF 'EF+ I#' + F-'
#- 8' 8G#-' # 8+ # 8' 'H J' 'I8 8+F 'I#+#' !8< 8 +# 2#-' # 8+ # 8'
JF '& 2E '1#2#'1#2##' JH2# #' 8G#-' 2#J2F 8' E'+8G# 8 ' # ^' '\ !
?E#I#- '# 8+'8 -'8 0 #8 -8- 4'8'18J8+F '< J8 '# 8+J8E8 8
82- ' &# + # #F-' ' +# ' # 8'+8G F ' F# 8' 8' F+J8+ JH' 8X
<F2-F-' ' 8 ' 8' # 8+#J ' #22E 2F ' &# + # #F-' '/ EJHF ' SF#8I#'
+# F-'1#2#F-' F+JH E#' 8X<F2-F-'8' +8G '# #SF8 m
)'U+ '# ## 4' 9 2' !' ' '_' ' !' ' ' ' $ -G'
' ' ' w') ' ' -' !' + # ' ' ' '
' ' * # '_' ' # ' ' ' ' ' " ' ' ' ' ' , '
'' # ' ' ' ' '_' 'v ' ' ' ' ' 'w'
' , ' ' ,' ' ' ' * # !' ' ' '7 ' ' G'
' !' / , 'w' # ' 2# '2 J '?#4 ' ' ' # 'w' ' ' 'EF '
'5 'K 'w' ' ' / ' J'-'# '-8'_' 2' 2 #' % , ' !'
; ' ' / 'U'8' '/ , ' !' / ' '
/ ' / !' '8' # ' ; ' ' , ' ' ' ' '
+ !' / ' ' ') ' ' '8 ' ' ' ' '
' ' ' ' ' ' ' ' / , '7 #' ') ' '
/ , ' !' #'/ # ' ! 'w' 2' 2 #' -'1#18 ,' ' !') k
' !' #' '8 ' , ' ' / !') ' ') ' 8'
' ' ') #' ' / ' 8'# 'H' ' 9 2' 'E#8'U8UF ##' 8'
F2 # '2F ^' F+JH8+ JH' I8 # # 8+#JF '8'&# + # #F-'8X<F2-F-'8' +8G '
' 8 ' X8+J# F-' JF ' F+JH8+ JH ' <+ 8E#J ' -- +# ' 8' G8 # '
X8+J# F-' <+ 82# E#' J F- ' JF '1#2# ' F+JH E#' ' 82 H 'J + ' F+Z

JH8+ J2 ʿE 88ʿ# #8+F ʿ<+ G2#F #ʿ8ʿI#J [-ʿ8-ʿ1#2#F-ʿ F+J2# E#ʿ8ʿ JJ#-#ʿ
-F ʿI#+#ʿ < # #ʿ # ʿ#ʿ -- +# ʿ /#2# -ʿ 2 F #ʿ1#2##ʿ JH E#ʿ1#2##ʿ
#ʿ #G+#ʿJ <# #-ʿ 8ʿ#ʿ 2# ʿ2 J ʿEF ʿ ' +G + #ʿ8ʿ 2# #ʿ 2##ʿEF ʿ ?"#2E ʿ
$ +#J##ʿ 8ʿ1#2#F-ʿ ? H+# 7 #ʿ JJ#-#ʿ-F ʿ# 8+ʿ-8ʿ 8ʿV2##ʿ F2 #ʿ +E82 0ʿ
JHF-ʿ1#2#F-ʿ E8+#J#ʿ 8Xʿ ## J# 8ʿUFGF2 F-ʿ8-ʿʿ JH 8 -# F-ʿ -F#-ʿ<8+ʿ
-#E# -ʿ <+ <+# -ʿ 822 JH ʿ ' 822 JH ʿ --82#Wʿ JJ#-F-ʿ 8- ʿ #8E8-ʿ
JH2# #ʿ ' 2 8#ʿ<8+ʿ F+JH EF ʿ '!8JHE ʿ $ 82#F ʿ&F 2# ##ʿG8- F ʿʿ
& 2E ʿ ' +# ʿ#ʿSF ʿ JJ#-#ʿ-F ʿ G 8-ʿ G8 # -ʿJF ʿ1#2#ʿ F+JH E#ʿ
8ʿ ' J +ʿ/ 2#aʿ8ʿ& 2EF-ʿ ' JH +ʿ1#2#F-ʿ 8G#-ʿ # ++ G# 8ʿUF 0ʿ
J - 8ʿ 8ʿ 2##ʿ F2 #ʿ JJ#-#ʿ -F ʿE8ʿ #8 -# F-ʿ & 2EF-ʿ1#2#F-ʿ H E8#ʿ
' +# ʿ JJ#-F-ʿʿ JH 8 -# F-ʿ &# + # #F-ʿ '& J ʿ JJ#-F-ʿ8- ʿ
/#2#F-ʿ1#2##ʿ &F 2 G#ʿ ' # 1 82 Eʿ JJ#-F-ʿ8-ʿ#ʿH Jʿ m
^2ʿ 8ʿ(ʿ 92ʿ !ʿ ʿ+ ʿ ʿ; !ʿ #ʿ' #ʿ ʿ
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2ʿ_ʿ# ʿ ʿ ʿ !ʿ) ʿ ʿ8 ʿ ʿ ʿ' ʿ
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ʿ .ʿ8 ʿ ʿ ʿ8 ʿ ʿ' !ʿ ' ʿ ʿ8 ʿ ʿ
ʿ ʿ ʿ# ,ʿ, !ʿ * # ʿ ʿ/ ʿ 9 2ʿ ʿE#8ʿ! #ʿX###ʿ
2F fʿ I -# ʿ G8H# -ʿ<8+ʿ F+JH8+ JHF ʿ ' +# ʿ 2ʿ<2F+# ʿ1 J ʿ
#- ʿI#J8ʿ ; - # 8-ʿ 8ʿ1 J# +ʿ 822#J - ʿ 8ʿ1 8-ʿ< -ʿ8 <ʿF-ʿ #- FEʿ
&# # #F-ʿ ' +# ʿI8+ #ʿ-8ʿJ +ʿ F+JH8+ JHF ʿ ' +# ʿ ʿ - 8ʿ
I# JF2 ʿUF+ 8 #ʿ 82#SF# +F ʿ # 8+ #aʿ X<FG #ʿ #+ 8+#J#ʿ J +ʿ
F+JH8+ JHF ʿ ' +# ʿ 8ʿ J +ʿ1#2#F ʿ F+JH E#ʿ F+JH8+ JHF-ʿ
' +# ʿ #-- +# ʿE 88ʿ JJ8<#ʿ JF2F ʿ<8+8G+# #ʿ 8 GF-ʿ ' 8 8E#mʿ
1# #I#ʿI# ʿ182#J# 8+ʿ#ʿ& !
+ ʿrʿ4ʿ 92ʿ !ʿ ʿ ʿ_ʿ!"!" " ʿ 8 # ʿ ʿ ʿ' ʿ ʿ
' - ʿ5 ,ʿ ʿ ʿ # ,ʿ# ʿ ʿ ʿʿ # ʿ
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- +F ʿ ʿ ʿ8 !ʿ ' ʿ ʿ) ʿ !ʿ ʿʿ ʿ ʿ Gʿ
, ʿ ʿ ʿSʿ#ʿ>< ʿ ' ʿ ʿ ʿʿ ʿ ʿ ʿ/ ʿ ʿ
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ʿ , ʿ ʿ #ʿ ʿ ʿ_ʿ 2ʿ 2#ʿ 9 2ʿ ʿE#8ʿ2F 8ʿ8ʿXX#Iʿ
F -8ʿ ;#J +# ʿ 822#J - ʿ< + ʿE8ʿ F+JH E ʿ ' 82-8JH 22ʿ<8+ʿ 2#8 #G80ʿ
ʿ&F 2# ##ʿ8ʿ G8 #8 -8-ʿJF ʿ ʿ# 8+8--8 ʿ# 8+ʿ8 -ʿ #-#ʿJ - + ʿ +# F-

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J # F- ˢ + +2F ˢ 1 #2#-8ˢ 9 8228 -#- ˢ # ˢ 8 ˢ ## JH +F ˢ 9 8228 -#F+ ˢ J[ˢ
-F ˢ 8 ˢ # ˢ 8 ˢ <+ < 8+ˢ 8-ˢ JJ#- +F ˢ # ˢ 8 ˢ G8 #-ˢ ' +# *ˢ 82 +8ˢ
'&F ˢ +JH#8<#-J <F-ˢ # 8+ # 8 ˢ - <#8 -ˢ <#8 8ˢ 8 ˢ -J#8 # Uˢ SF#8 I # ˢ # ˢ
H+#- ˢ ; #J +# ˢ #22 J 8 8 -#-ˢ < + ˢ <8+ˢ #+J 228 -8-ˢ E8ˢ #+ 8 -#0ˢ
F-ˢ -F2 +F ˢ $+ 82#F ˢ I #J +# -F# ˢ G8- F ˢ ˢ +# ˢ 1#2# ˢ F+JH E#ˢ J
+ ˢ & 2J --# - ˢ # ˢ SF ˢ JJ#-#ˢ - # ˢ 8GF2#ˢ 8 ˢ &FJ8- ˢ 8 ˢ 2##ˢ F2 # m
^ ˢ 9 2 ˢ !ˢ ˢ ˢ ˢ 1 ˢ ; !ˢ) ˢ
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f ˢ , ˢ ˢ / ˢ ˢ E ˢ / ,ˢ ˢ , ˢ ˢ ' ˢ
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#!ˢ ' ˢ 5 ˢ ˢ) , ˢ !ˢ ˢ) 1 ˢ ˢ % ˢ_ˢ &) Gˢ
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7 # !ˢ ' ˢ ˢ ˢ ˢ ˢ ˢ / ˢ ˢ ˢ , # , ˢ ˢ ˢ
ˢ ˢ & ˢ_ˢ ˢ ˢ ˢ ˢ , ˢ ˢ 5 !ˢ) 1 ˢ ˢ ˢ
ˢ 8 ˢ ˢ ˢ / , ˢ S ˢ ˢ / !ˢ n 9 2 ˢ ˢ E#8ˢ + #- ˢ 8 ˢ I ˢ
2F 8 ˢ &# # #F-ˢ ' +# ˢ + FF-ˢ 8- ˢ <FEˢ +J G# ˢ G ˢ 0ˢ
8ˢ J+ +8ˢ < 8 # 8 # ˢ 82-8JH 22ˢ 82 ˢ JJ#- -ˢ <FEˢ --82# ˢ
E 2 -8 ˢ : F F +ˢ 8G8-ˢ JJ#-#ˢ <FEˢ #- +# ˢ ! ˢ J 8# ˢ EG 8 ˢ ˢ
&FE + ˢ UFGF2 F-ˢ 8- ˢ <8+ˢ '/ # JH+ JH -ˢ +E+ H ˢ H E8F-ˢ ? ! 8GE ˢ J
J#- -ˢ ˢ 2#8 #G8+##-ˢ # 8+#J# ˢ T ˢ '/ 2 8 ˢ 8 E 2F-ˢ JFUF-SF88 +F ˢ J + ˢ
2 8+F# ˢ +# F-ˢ 1#2# -ˢ F+JH E#ˢ ' +# ˢ JJ#- -ˢ 8- ˢ ˢ H E8 ˢ 1#2# ˢ 1#2##ˢ
+ H G# ˢ 8 ˢ ˢ &8- ##- ˢ 8 ˢ ' +#V #- ˢ 8 ˢ 2 1ˢ ' JH JHˢ JJ#- -ˢ 8- ˢ # ˢ
8 E8 ˢ 2 J ˢ +E82 JHˢ 1#2# -ˢ E8+#J#ˢ 8Xˢ J# 8 ˢ 8 ˢ F+JH Eˢ ' 820ˢ
-8JH 22ˢ 8Xˢ #E# 8 ˢ 8 ˢ ' F +Jˢ 8Xˢ ' +#F # +F ˢ JF ˢ F+JH8+ JH ˢ
? +# ˢ &8- # ˢ E =88ˢ I - I 8+F ˢ " 28 G +8 -8- ˢ S # # -F++8X8+F ˢ
J + ˢ F+JH8+ JHF ˢ 8 ˢ ! # H+#F ˢ 1#2# + ˢ 1#2##ˢ + H G# ˢ / #2# -ˢ " #2E E#0ˢ
+##ˢ '&F# 8 JHˢ UFGF2 F-ˢ 8- ˢ ˢ & 2E ˢ ' # Hˢ ˢ ˢ ˢ 8 ˢ & 2EF-ˢ #- 8

8X<822#'$ +8 '-FF '#'8 8' ' HG ' 8X' 2 ##
JJ#-F-' '1#2#'&F -28 ##'8' G '-+ G8-' 2 #8 -### '<8+'/8+ 8 -8-'
/#2#F-'1#2[' JH2# #' <+ 1#J#-J# F+' #IJ 22# '8' ##18+' F '<+-8E -'# G8
8-'8' +8G# # F-'2 -F2 +F '8'# #' JJ#-F-'8-' 8E '" 2# +8J2 < ' & 2EF-'
1#2#F-' E8+#J#' # FF-' 8- ' ? E8+#JF-' ' J +' SF#8I#' <FE' 2F 0'
J0 #- m' , Y'
' ' ' 92' ! ' '_' " ' !' ' ' '8 ' ' '
; ' , ' - #'S' _' ' ' ' ' ' '& ' / #'S'#'
>< '_' ' ' ') # #'S'#' >< '_' ' 'B ' '8 G'
' ' ' ' ,T' _' ' ' ' W' ' ' G!' ' '
' @' ' ' '# ! ' ' '8 ' ' ' # ' #'8' / , '
,') ' '8 '_' ' ' ' ' '/ #' '_' '
' ' ' ' ' ' ' ' ' ' '/ , #' ' ' # '_' ' ' '_'
-' / # !' 9 2' 'E#8'<+# #U8UF ##'8'XI#'2F -8' F+JH8+ JH' ' +# '
8X'/2# 8+ # 8'-F 'E 2 +8'< 8 # 8 #-8'SF#8I# '8' <#-J <F-' ' 8 #' $+ -< 0'
-# F-' - 8+##' -F2 8' H #G'SF#8I#'# ' H+#- '8' <#-J <F-' #- +8 -#-'
'& G4 H#' SF#8I#'# ' H+#- '8' + +#F '/#+E #' ' # G822 'JF '-F#-'
EF F-'1#2##-' 8'JF '- 'FX +8' 8'JF '-F#-' E 8- #J#-' XJ F #J #'
) => ' 8-' SF#' 18J8+F '+8 '#- ' /#2#F-'1#2##' + HJ #' ' HG '
+ #F#-' 8- ' 2 --#-' JF ' 1#2##-' &# + # ##' ' +# ' 8'JF ' H # ' #
+ G# 'UF J - # ' 8'18J8+F '- + G8 ' G '-F<+ '2 JF
J2 --#-'#- #F-'<8+' HG F '8' F2F J +# -'8' # ++ G# - m
) ' '%#4 9#' !' ' '_' +*' ' '_' , !' , !'~"!" , !' ' !' '
' '# J + # 8' 7 # ' ' ' '/ 'S'#'>< ' ' !'
' ' # ' !' !'8' '--' % #' !' '/ #' ' ' '* ='
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W' /4 ' '* # '# ' '_' ' ' ' ' ' ' '_' ' ,'_'
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, Y' ;#E8'S) W'E8'H J' E8 J'E#J '-F '$+ 28G '<' XX [

B ! ! / ! !

/ , K _ , ,
#! 9 2 E#8 # 8+ EF U8UF # 8 XXI## 2F w
8 F- #--8X #2#- 8 XX F- -F<+ J + # 8 /8+G#2#F- <+w0
J#<FF- !8 # + - 8+## -F2w JF- +8 SF#8I# # H+#- # 22 1#2#F-
1#2## JH2# # 1F F+F- 8X # 8+ #w JJ#-F- 8- -F#- H E8F- 1#2#F- 1#2##
+ H G# #I# -- +# JF &8- ##- -8JF # E 8J I8 # '" #2E - $ +#
J# - 8X -- +#w # -F J - + 8 E8E8+F -- +## -#E8- 8# 8 E8E8+F
- #<8 E# G F+# 8 8SFd+F 8 G 8- -- +#w {F -F 8G8 8X0
<F2-# 8 +8G & 2{ --##- 8 8 +F J < #I# + E# # 1#2# E8+#J# TG# 0
J#w ; - # E 2 - 1 J 1#2# E8+#J# E8 8++#- #E8 -#F J +
< J # # JF ; #J +# $ +#J## 8 J + < J8 1#2## 1#2## JH2# # 8G#-
2#J #w HG F#+J + FF- 8- 8 -8<F2 F- # #-1 28 820
-F- ; #J +#F- $ +#J## I8 # J#+J # 8+ # F# 8 8 8E#J # ##8
+82# SF# # F- F #JF SF8 I8 # m
n! ! + % 9 2 E#8 ! 0
8 #X 2F w m # J + # #- & # # HF >< # JXX# @8
) ! #) / - ! 8 G
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! j 4 , _ ! + #
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G#- # 8+ #w # &8++8 -# <<#E 2F - JJ28-# +F +- 82-8JH0
22# 8228JH 8G#- F- + 2#- # 8+ #w # +J G# G #w
+- 1#2## &8 + E## '/2 -8#<- # 2 JF JH $+wE G + 0
<F8+F 2 ## 1#2# 1#2## JH2# # ! + G8- G 2 #8 -#F 8 8 0
+F <+wE # 8+F J < @0 X\+8# F- J#+J # 8+ # JF +E82 {
1#2# E8+#J# &8- # E 8J 18J8+F +8 H ++# #28 &8 8 JJ28-#w
H+#- # w w G8 8+ 2# 8+ # 8 #- +# J 8# I - J8#E8+F
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! ! / ! !

+8I8+8 # $ + # -# F2 8 ! J +F ! #<8 E#F #- FJ2 1F# # 8 # #-
<8JJ # 1 J#8 E# m@ !# SF#- -<8+ + # I8 F- 1F8+# _ E#J F SF &-
I# E#J I# <8JJ F 8SF 1 J F 1F8+# +8-< E8 # F+ 8# SF E 88
#+F -# -# &8F- JF# 8 8+ <F- <+8-8 - -# # UF+# JJ28-#w -Fw
8 <8+18J 1F8+# I# E#J +8

9 2 !) - w z w , , w W
/ ! ' ! J + + , ! / w) 4
/ , S _ ' ! ! / -FJJ8--# 5
' 2 #! 8 ' ' #! !
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8 # / ! +- , & # ! 8
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8 F- #--8X #2#- 8 XX##EF- -F<+ J + # 8 $ X # H J
8+ JH 8 -8- 8 &8- # - ' #GJ2 ; #J +#F- 2 8# SF#8I#
8 82 +E 1##g#- 1#2## 2 E # 8# -FJJ8--# " #2E - 82-+ #F- ' F +J
UFGF2 F- 8- F+JH E ' 82-8JH 21 <+ < 8+ +8I8+8 # ! J +F
822F # 8+ #+ 8 -8- 8 / #+ JH8 -8- 8 / #+ JH## 8+GF I8+ 8+F
$+wEw # G8 8- JF #+ 8 -# F- 8 < +8 8 E8 2 w 2 #8 -# F-
" E1+8EF- $+w28J + +E# J F- # H+#- SF#8I# 82-8JH 2
'& 8G 28X + E#w UFGF2 F- 8- + 1#2# 1#2## 1#2## JH2# # + F
8- , JJ#- fY 8G8 # J#w +- 8E# '&F E#+ # #-8 G
+- ' G # E8 #+ 8 -# F- F1JHw G# m

Z) 1# 4 9 2 ! w , ! , !
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F- < - #--8X #28 8 ### F- -F<+ J + # 8 & 8F
'98 8E# SF#8I# XJ+J# F- JF# +E82n7 JH 1#2# E8+#J# F-SF8
F JH+# <#-J <F- [# JH SF#8I# <FE #-+ +8 / #2#F- " #yEw0$ +#J##
+F1# 8G#- -- +#w JJ#-F- 8- -F#- + F-# G8 - J ++#<# H E8F 1###F

K + H G# 8 + # {F3 1+ 8+ 8UF- ++#<# #8G F &8- # # 8 # 8UF- << +0
-8 # 2F+8 H J ?&8J2 E UFGFg # - 8- J28 1#2# &y + # [s
+ X © # 8 ; { !" i W! % #!! ! ! / #
/ _ S / , ! 4 ' # #
w / / ,! / # _ + #
/ , T , / ! ! / #! '
, w / w 2 # 1F8+ + # / ' #
! w , # !
' ! ! 8 S 9 2 E#8 m + #- 8 X## 2F w H 0
E8FN 1#2#F- 1#2## + H G# 8X --82#w SF#8I# " 2 --#- JF # 1#2# E8+#J#
U-SF8 HJ 22# ' F+J8+ G 8X? G JH w 2 JF- 8 #w 8 F2F J## -
' J + 8X # ++ G#w 8 +JH ?! JGE 8X +J EF #w 8X<##2-#
+ J 1#2# 1#2## + H G# ; #J +# < + 1#2# E8+#J# E8 #E8 -# F-
8 E8 J ##- 8 F2 # 1F8+ JJ#-g X8+J# F- JF + J JF*
E# #E# G w y 8 E# #E# +T 28 # 8+ ## -8JF F-SF8 H2 # #
J + 1#2#F E8+#J# 8 JJ#-# -F -#E8- 8UF- 1#2# E8+#J# F+8
JH 1#2#F- 1#2## 8E# 8X ' +#F # +F SF#8I# m
) HF 9 2 ! ! !" f w , ! _ , ! _
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9 2 E#8 # 8+ EF U8UF # 8 XX### 2F w 8 + F- F- < - #--8X0
#28+ 8 #I F- 8 XX F- -F<+ J + # 8 #--# +# J 8#
J F- 2 --#- JF 1#2# E8+#J# F-SF8) +J EF # E F+J8+ 0
JHF ? F+JH8+ #G 8G8 G JH w JF- 8 \ JF -F#- &FJ# F-
8X<8228 EF 8 18J8+FF - + G8 # g 82 +8 SF#8I# <FE " 2# E 2 JH
828 # +J #8<#-J <F- G8 #w 8 $+wJ#<FF- - <#8 # SF#8I# # H+#-
<FE 8 HG2# ! + G8- G 1 J <8+ #E8 -8- E8 +G# 22##- H J 8-

t ˁ !ˁ0t ! / p ! !

82-8{H 2ˁ 1#2#F-ˁ & J H#ˁ JJ#-F-ˁ 8- ˁ ˁ 1#2# ˁ ## J y##ˁ ' 82-8JH ˁ
<FEˁ $ 8 ˁ ; Ey ˁ $) # G (ˁ F #ˁ JJ#-#ˁ -F ˁ 1#2#F-ˁ ' + 22# ˁ 8 ˁ 1#2#F-ˁ
8 2#ˁ ' 8+ #G ˁ 8 ˁ 2##ˁ F2 # ˁ ! + G8-ˁ 2#8 #G8 +F ˁ # 8+#J#ˁ 8 ˁ # 0ˁ
+ G#8 -#F ˁ 1 J ˁ ˁ +E82 JH ˁ ' +# ˁ # F# ˁ + Jˁ 1#2#F-ˁ 1#22#ˁ +0ˁ
H G#ˁ +8G F ˁ # 8+#J#ˁ # ˁ ˁ #- ˁ F+J ##ˁ ' 8#-8Jg ˁ 8X<F2- -ˁ ˁ
1#2# ˁ E8+#J#ˁ # m

) ˁ ˁ UZ !ˁ ˁ $ ˁ f ˁ "ˁ ˁ ˁ wˁ ˁ ˁ ˁ
, !ˁ !ˁ ˁ D , !ˁ Z!" ˁ / !ˁ ˁ ' !ˁ ˁ 4 # !ˁ / ˁ 2 ˁ ˁ 8 ˁ & ˁ
ˁ ˁ ˁ ˁ S ˁ # ˁ >< ˁ / , ˁ ˁ D / ˁ S ˁ # ˁ >< ˁ ' ˁ
/ , ˁ ˁ / ˁ ˁ 8 ˁ + ,ˁ # ˁ ˁ / , ˁ / # ˁ S ˁ 4 ˁ
ˁ , ˁ ˁ ˁ ˁ u #{!ˁ ˁ !ˁ) ˁ ˁ # ˁ Z8 ˁ +W # ˁ
ˁ % , ˁ ˁ / ,!ˁ ˁ # ,ˁ ˁ ˁ # ˁ # ˁ #ˁ ˁ / # ˁ #ˁ ˁ
ˁ ˁ ˁ ˁ # ˁ !ˁ / ˁ , { # ˁ ˁ " ˁ ˁ ˁ / " ,ˁ Gˁ
!ˁ ' ˁ # ˁ ˁ / # ,ˁ Gˁ / ˁ ˁ ˁ -ˁ , !ˁ
/ ˁ ˁ !ˁ ˁ ˁ ' ˁ ˁ ˁ ' ˁ ˁ ˁ , ˁ wˁ , # , !ˁ
4 ˁ) , ˁ ˁ ˁ ; # ˁ ˁ , ˁ ˁ ˁ ˁ ˁ !ˁ / Gˁ
ˁ ˁ ˁ ˁ ˁ ! ! ˁ G # ˁ ˁ ' #!ˁ 9 ˁ ˁ Ey8ˁ U8UF0ˁ
ˁ 8 ˁ # I ˁ 2F 8)ˁ 8 ˁ F-ˁ 22E F-ˁ < - ˁ #--8X #28 ˁ 8 ˁ ; F-ˁ F-ˁ 8 ˁ >> F-ˁ
-F<+ ˁ ˁ ˁ J + # 8 ˁ # Jˁ ' 8+-J8 #2ˁ + FF-ˁ 8- ˁ <#-J <F-ˁ
' F#E#F- ˁ SF#8 I # ˁ # ˁ 2#+#- ˁ 8+ 2ˁ ' ++ JH ˁ SF#8 I # ˁ # ˁ +#- ˁ
/ #2#F-ˁ 8+ 22#ˁ ' # + 8Jˁ # + FF-ˁ 8- ˁ ! E ˁ 1#2# ˁ ' JH +#ˁ # ++ G#wˁ
SF#8 I # ˁ <FEˁ #-- +# ˁ 88+ +8ˁ <8+8G+# # #- ˁ 8 ˁ <8JJ +F ˁ ˁ 1#2#F-ˁ
&# + # ##ˁ 8Xˁ G8 #wˁ + FF-ˁ 8- ˁ X8+J# F-ˁ JF ˁ +E82 J ˁ ' J 0ˁ
+ˁ G8 # ˁ 8 ˁ - F2# ˁ -#E8-ˁ G8 #w ˁ 8 ˁ 8 -82 J #w ˁ 8 ˁ 8 I 8X# ˁ 1#2#F ˁ
-FF ˁ Eˁ +8G F ˁ &F 2# ## ˁ X8+J# F-ˁ <+wE +#F-ˁ JF ˁ #+J 228 -# F-ˁ
8# =ˁ < - 8 #ˁ G ˁ - + G8-ˁ JH 8 -#F ˁ # ˁ #+J 22# ˁ E 8Jˁ
828E8+F ˁ F ˁ +# F F ˁ X8+J# F-ˁ JF ˁ E8+#J ˁ #<- ˁ # ˁ F-SF8ˁ
Eˁ +8G# #+8 ˁ 8 +#w ˁ E 8Jˁ - F2# ˁ J < # I -ˁ 8 ˁ F ˁ <+wE -ˁ '&F11#ˁ
R 8Xˁ 2G E#wˁ E# 8+-F-ˁ {F ˁ G8 8ˁ EF +F ˁ I#JF2 +F ˁ -8JF ˁ 2 --#-ˁ
JF ˁ 1#2# ˁ E8+#J#ˁ 8 ˁ ˁ ˁ <8+ˁ F+JH8+ JHF m

!# ˁ !< ˁ 9 2 ˁ !ˁ ˁ + ˁ _ ˁ "ˁ !ˁ / ˁ !ˁ !ˁ / #ˁ ˁ
) ˁ ˁ # ˁ ˁ ˁ ,ˁ ˁ ,ˁ ˁ ˁ ˁ ˁ _ ˁ ˁ ˁ
, ˁ ˁ !ˁ + # ˁ ˁ !ˁ ˁ ˁ ˁ !ˁ / ˁ wˁ ˁ ˁ # ˁ
' ˁ ˁ 4 ˁ ˁ ˁ ˁ & , ˁ ˁ / , ˁ ˁ 8 ˁ wˁ

. !' ! / ! !

% ' ' ' ' !' W' ' ' '/ ' ' u '_' ' ' '
' ' ' !' ' ' '+ # '_' '5 ' ' '7 ,{'_' / '
' / 'U'-' ' ' ' ' #' ' G '_' ' '% #' '
' / u#'r F) w') '_' '/ ' ' , ' ' / ,!' / '
' ' 4 ,' ' ' ' ' ' # !' ' ' ' # '
_') , ' ' # 4 !' + # 'x!' !' ' ' ';; ,' ' '
'4 !' 5 ' / ' ' ' ' , ' / !' !' ' ' #'
w' ' ' #' >< 'S' ' !' / ' # '8' 5 ' / ' '
, ' ' i' # ' #' '8' ' ' ' / 'U'8' ' G'
' ' / ' W# ' ' 'U'8' / , ' ' ' & # ' G'
#' ' ' !' ' ' ' / #' ' , ' ' ' ' ## ,' ' G'
' ' / ' / # 'w' ' # ,' / , ' / ' #'
,' 'w' ' ' ,' ' ' ' ' / ' !' #' ') ' ' #'
' 'w' ' ! !' !' 5 ' ' 9 2' 'E#8' ! #' X I 2F w'
+ J' 1#2# -' 1#2 [' + H G#' 8X' &8- #w' 8X<F2- -' 8' +8G ' <8+' JH# -'
-F -' 8 ' # I # ' #-- +# ' 8 ' 1 J w' -F ' ; - # 8-' # G8 8-' < - 8 ' X8+0'
J# F-' JF ' 1#2# ' E8+#J#' <8+' +8G# 8-' F-SF8' +J G# 0' 8 ' - F2# ' -#J28-'
#w' JF ' -F2#G# ' 8G8' JF-' 8 8 ' -F++8X8+F ' J| +' ' +# '
8 ' +E82 J' EF '1+ +8-' J + ' 1#2#F ' E8+#J# ' 8 ' - F28+F ' + JF '
#-- +# ' 8 ' E8E8+F ' +8G F ' #w' 8#' F+8 H' ?!8GE ' 8 ' " ##E -'
8E8 F2F-' ?/ 2 8F-' 8 ' H 2' ' H 2' UFGF2 #' -F ' F+J8+ 8H' '##F+0'
JH8+ #G' 8X' JF-' 8 #w' 8 ' EF ' 1#2 [' H E8#' 1#2 [' 1#2 [' + H G# ' 8 ' ? # '
8X<F2-#' J# ' $+w2#F ' # 8+' 2 #8H-8-' # I #J8 ' # ' SF ' JJ#-#' -F '
8 +F ' EF ' 8G8-' E ' ' HG ' 8 ' 1#2#F-&F -28 ##' 8 ' I - ' 8- 2 0'
' 0 X8+J# F-' JF ' 1#2# ' 1#2 [' JH% #' 2 # 'E FT8' E8E8+F ' -#E8- 2 0'
" #2EF -' H+#- F-' ' 2 8' -F #-' ; #J +# -' 2F w' J' #-' 2F 8
F #1#J8 # 8' 8 ' 8288 - +F ' ! 8< 8 +# 2#-' # 8+ ##8 ' # ' H+#- ' SF#8 I # '
JH ' 1#2#F-' 22#' # + FF-' 8- ' " #2E -' H+#- F-' '&F1##' E8' #+ 8 -# F-'
2 G##-' # + FF-' 8- ' 82-8JH 2' ? 8 8E#' UFGF2 F-' 8- ' F+J8+ JH'
' 8 8E#' 1F F+F-' 8X' ' # H +F #' UFGF2 F-' 8- ' 2 --#-' JF ' 1# ['
-F2#G [' ' F+J8+ #G ' J + ' 1#%F ' E8+#J#' F-SF8' -F2 ' H #G ' 8 '
1+ J - ' -F ' <2F+8-' 8' I # F-' HG #1F##' ' JH +' # ++ G#a ' 8 ' J <+80'
H8 E# ' ' J +F-' +J + 8 -#-' I 8 ' 8' I # F-' #- #-' 8 ' JJ#-F-' 8- '
#' H 2' E#J F-' , 8G ' '& 822 ' 8X' JH F ' 8 ' ' '
1#2#F-' " 22-J#' `) ' ' m' 4

! ' ! / ! !)

) ' J nf.' I2' !' ') ' w' ! ' !' ' ' / , ' ' G'
' ' ' , ' ' ,' ' ' ! ! w' ' ' 8 ' !' % ' '
) ' !' !' / # ' w' !& 4 #' ' ' ' ' 9 2' ^' E#8'
& # #J ' 8 ' XUJI#' 2F -8' 8E' ' ++ #' 8X' G JH 8' JF-' 8 8' JJ#0'
-F-' ' 0 ##-8 ' 0 +F ##-' E 2d-8 @ 8+' & J2# E#' 1#2##' 1#2##' + 2# G#'
8 ' 1#2##' -F2#G##' ' F+J8+1 ' ' ' m
+ ') ' J !' 92' !' !' !' !' w' "' , !' ' ' ' / !' ' !' ' !' 9 2' '
' 8 ' #X F-' F-' -F<+ ' XX' -F<+ ' ' ' J + # 8 m' 5 ' ' '
' , ' / , ' ' ' n ; #J +#F-' J 8#m' # + FF-' n!G ' , # '
' 7 ' ' '+ ' i ' ' ' S' ; 8 8+ #2#-' ! J8+E N' <FE'
#-- +# ' J 8#' SF#8 I # m' ' , ' ' , ' SF#8 I # ' 4 ' & G'
' / , ' + ' ; #J +#F-' ! 8 #m' # + FF-' 8- ' / ' / , '
8 !' 82-F-' ; #J +#F-' $ +#J##m' SF#8 I # ' # ' ' ' ' _ ' -80'
<F2 F-' 8- ' !' / # !' !') ' ' 8 ' ' 4 ' ' ' '
' 8' ' 4 , ' ! 8X' 2 # 84' # ' E ' J F- ' JJ#-F-' 8- ' <8+' 2 #0'
8 -8- m' ' ' ,' #@' ' ' ' ' ' , ' 7 '
/ ' ' 8 # ' w' 2' 2 # ' + ' ' ' , !' ' ' ' ' ' '
' w' ' , ' / ' ' ' / ,' ' !' ' ' 4 , !' ' & '
% ' ' 4 ' ' ' , ' # ' !' !' ' _ ' / ' w' 2' 2 #
' / ' ' ' 4 ' ') !') ' ' / ' ' ' , ' ' 1 '
' ' / !' ' #' #' !' !' ' # ' 80' ' # ' ' G'
' ' 8 ' S' ; #J +# ' < + ' <8+' / 8+ 8 -8-' E8' +#8 2#' #E# '
' SF ' JJ#-F-' 8- ' / 2 0 822 JH' 8>' +8G# * ' 8 ' 2##' F2 # ' # - -' d++#E
2# J ' # ' SF ' 8X-#J a' ! F ' SF -' # 8+ #a ' 8 1 F #
X8+J# F-' # G8 -' JF ' J I ' 1#2# ' 1#2##' JH2# ' # ' # #8 -8- ' &8 I -
E ' -F2 8' # 8' <8+' # #8 -8-' # ' SF ' JJ#-#' -F ' -#E8-' 1#2##' 1#2##' JH0'
2# # ' 8 ' ' ' ' ' E* ' 8 ' 2##' F2 # ' X8+J# F-' G F-' JF ' 2 [- ' # '
& 2 + E# ' $8+' 8X8+J# F ' #- F ' JJ#-F-' 8- ' ' + ' JF ' I # F<8+ #d 8'
G 22# ' +-' 8G#-' JH#a ' 1#2##' 1#2##' JH2# # ' # ' J ' G F-# ' HG 0'
' ' +# ' SF#8 I # m' 8 ' -8<F2 F-' 8- ' ' <FEm' ' ' !
) ' ' fh' J ! ' w " ' !' ' ' / , ' '
#' / # ' ' , !' # ' ' ' ' / , ' ') '
' / ' ' ' !' ' ' f ' ' , !' ' ' / ' ' / , !'
!' !' ' ' ' # ' ' 4 , ' w' ' # , E # ' ' ,

9 2 E#8 <+# #U8UF ## 8 X I ### 2F 8 JJ+ H# - ' J + 1#2g- 8G#- # ++ G# - UF J - 8 JJ#-F- &8- +FJ # *G 8 J8J#J2# WF<8+ 1#2#F 2# +## '& 82 # JJ28-# 1#2# + # ! + G8- ; #+ +F #U# +# # O + # 2 # ; #J +# # <+G82# ,< +2 Y <8+ J +F 1#2#F 1#2## JH2# # 8 <8+ #+ 8 -8- E8 2 ##- 8 ###F8+F 8 #'F -#E8- -# F2 JF

B* YJ J+ J)F # -1S#FJ # !#f ;!

4 ** 9# !;2 _ w #--8X #2#- F- _ -8JF EF- # &8J8 I8 2# #J2 _ #228-# F- J8 8-# F- -JX G8-# F- J + # 8 & # # 8X +E# I8+ F E# SF# SFT #22# 8 XJ## # / ,) JJ#- - 8- 1#2##- 1+ *#- -F# ! / - SF#8 I# # ><

*< < # 9 2 8 1 + & FJ`# _ & #228-# F- -8X GJ-# #F- _ F F- F- J + # 8 & # 8X +E# I8+ F E# SF# SFT # #22# XJ# [8+ #F- # &8J8 I8 2# #J2 / , % G JJ#-F- ?+H ##- m) / # _ # , # 9 2 F2 & / I8+ f + ! ' / #) 8 # 8 E 2 J ' # , 8 ! 8E 1#2#F- 2 1# '& JH -F F- +8X 2#8 82 - 8G +## 8 G JH a 2 JF- 8 # - JJ#-F- 8+ # 9 2 F2## 82-8JH 22 1#2#F- 822 JH # $ 2 8- + <+ -- #--# F- &8- # - JJ#-F- 8- # 8 E8 2 J 82 +8 O F- ' +JH#8<#-J <F- JJ#E8 2#- # 8+ #*8 J - # # - J2 +F- <+ 8J#<FF- <#8 8 288 - +#F- JJ#E8 2#- # 8+ # 8 + FF- 8- # J# #-m 9 2 J _ -8<F2 F- 8- # !) ! ' _ _ , ' # ! 8X 2#8 82 - 8 &818 - + JH +F 8 8UF- 1#2#F- G8-# ' H m + " i 9 2 8 1 w ! ' ! / ! ,28G8 X## Y0@) / SF#8 I# # >< / !) !) ! / w H ! & FJH E 1#2#F- & JH E# I8 # 8 # H F# JF 1#2# + J# 8 -8 -F EFX#1J J2 8X #- J I8 # 8 -# + m 4

! ' ! $!

G 2 ' @ fh' #2! ! ' 'w' 9' !' ' -' ') G'
' 2' # ; 'J#JJ#-F-'8- ' I& '7 ' ' / 2, ' JJ#-F-'8- ' I& G'
' ' / ' JJ#-F-'8- ' & ' ' ' ' # ' / ' , ' ; #0'
J +#F-' 2 8#m' SF#8I#' # ' >< '# '& #!') a ' !') ' ' / #'
' #' _' # ' _' , #') ' , ' ' ' !' / ' '
/ #' & JH 82' 1#2#F-' & JH E#' ? * # 2FJ8+ ' F #1#88 #*8' 8' 2# 80'
+ 2# #-'8' 8 8I 28 # -'&8N # 8' JJ#-F-'E 2 -8' '1#2#' + 8#' ? + H# m'
+ ' '&' #2W' 92' !' ' ' ' "E !' I& ' !') '
' / #' ' ' ' !' / '_' ' '5 ' ' ' / ' ' '
' w' ' , ' ' ' ' # ' 'Q !' I& ' / 'w') ' '
' ' ' ' ' # , ' # ' # ,' #' ' ' ' , '
' , ') ' !') 4' 'w' 2##' + ' ' ' '
' #' H' # ' ' / # ' ' !' ! n; ' / # ' ' # ' '
'; ' ' , ' ' ' '; ') 'w' 7 4 !' % , ' '8 ' ' '
' ' # ' ' , ' ' ' / , ' , ' ' ' '8' I 2' '
E#8' <+## #' U8UF ##' _' #I' 2F *8' 82-88HF 22' 1#2#F-' & 2E#' ' + H#' J I8+ #'
-8' J + ' 1#2#F ' + J#' 8' ET<+ *E # ' " #2E*8' J 88#' ' + 8J' 1 J '<8+' 8F '
8' J < F-'8- ' '8 7' 8' 2 F-' F-SF8' G JH # ' 2 JF-' 8 8' / #2#F-' +0'
J#)' 8' &8-# # ' # <8 F ' 1 J#FS' # I7+ I#- ' # '8F ' 8' J - + 8 F+'
<FE' " +8 J ' J + '8F ' 8 'G8- F '8- '<+-82#F ' # 8+' 8 - ' 8' JJ#-F-' 8- '
& 2EFZ' 1#2#F-' & 2E#' # #' 8' 2## ' / X' # # ' < - 8 ' & G E##' I - #' '
G 22#-' 8' 8 <8+8' ' G 2 #' I - #' < - 8 ' # ' F ' ' +82# SF8+8 F+
' ' <8+0' #+ JF2 ' &8#' 8' / 2# ##' #) 282 J' ' +# F' # I # ' <+- E 0
EF ' ' 8' - F2# ' I8-' <2F+# -' -8JF ' ; #J ##F-' 2 8#' 8UF-
1#2#F-' JJ#-F-' 8-)' / , ' I& ' JJ#-F-' 8- ' ,' & !' ' '
' / '_' ' ' , ' 8' 8UF-' 1+ 8+' JJ#-# m
' ' ' 92' !' ' '_' " -' If ' !' % , #' '
' ' ' '_' # ' % ' '# , ' ' _'% , ' ' ' ' / 4G'
'w' ' ' ' ' ' / ' ' ' , # ' ' ' !' If '
) ' ' / #' ' , ' # , ' / ,!' ') ' '8'
) ' !' % #' !') ' ' !' 5 ' ' % ' ') #'
* ') ' !' !' I& # ' ' ' ' / , '_' 'If ='
' !' % , #' ') ' ' , ' 5 ' , ' ') ' !'
) ' !' / #' ' / ' '8' 7 , ' ') f ' 8 @

! ' ! ! !

+ # ' ' ' w' ' ' _' ' W!' 9 2' ' E#8' U8UF #y' 8'
>;' 2F w' F+J8+ JH' 1# F-' G+E82 JH#' # -F+G#' J + ' -FF ' < +8 ' 8'
+8G F ' H #w' ++8< F ' ' 8 ' 8 ' +E82 JH' #I# ' #2E 2F ' 8 ' # E8'
#-- +# ' # ' E F ' 1#2##' + J#' 8 ' ETE#' J < #I -' 8#' # #' / #2#F-' & 2E#'
' + #G' 8X<F2-F-' G8 # ' J +' ?&# + # ' JJ#-F-' 8- ' & 0'
JH E' 1#2#F-' H E8#' 1#2##' & 2E#' JF2#-' + F- ' " #2E -' +# # #-' '& 2 '
$ 8 ' -F<+8 -' &8- #w' J{#-F-' 8- ' , Y' G8 -' 8X8+{# F-' JF # E8+#J '
? J + ' 8 ' JF ' F+J8+ JH ' 1#2# ' +E82 JH#' &8- # ' 8 ' JJ#-F-'
8- ' " #2E -' 2 8F-' '&8E E' ' 8#-' & J E' 1#2#F-' 8 8 H#' ' H# 1 8 E'
JJ#-F-' 8- ' / 2 H8+ J' '& 822' JJ#-F-' 8- ' ! 8 GF 2 ' J F- ' 8 ' 8UF-'
JJ28-# ' 8 ' E F-' <2F+# # m

J' 2Y' ©#' J `!' !' ' + ' w' " !' / 4' ' '
' /*' ' ' # ' w' ' ' ' ' ' # ' + a '
' ' w' # ' ,j' ' ' ' !' 5' ' ' , ' ' ' '
/ , ' 8 2 ' S' #' >< ' ' ' !') ' ' / #' G'
, ' ' ' / !' ' a!) , ' ' 4' ' ' 8 ' ' ' '
' !' ' u ' !' ' ' ' ' ' ' , ' ' '
/ , ' w' ' ' # ,!') ' !' ' ' ' ' # ' ' , '
' ' ' ' ' ' ' 5 ,' ' w' ' # ,' !' 7 '
' !' 2' ' / ,!' ' 5 , ' # ' !' 9 2' ' E#8' !)'
#' 8 ' I#' 2F w' I8 # ' JJ28-# - #J +F ' E# #E##' GHw ' #' 8' E# #E##'
F- + 2#-' 2## 8+ #w ' #- +# ' JF ' 8G ' 8 ' JF ' EF E8J# ' <#-J <#-'
-# #2# 8+ ' E 8J' 18J8+F ' ! EF ' # #' 8 ' J -8J+ I8+F ' JJ28-# ' " #2
E -' 1#2#F-' 28 ##' ' J E ' ; #J +#F- +8 E #' SF#8I# ' # ' H+#- ' 820'
-8J 2' 1#2#F-' & 2E#' ? + H#' JJ#-F-' ' 1#2# ' + J#' JH #E' 1#2#F-'
&F -28 ##' 8X' [2 #w' JH E +F #' JF2#-' + F-' 8- ' ' 1#2# ' JH2# #'
F+J8+ JH' 1#2#F-' 1#2##' JH2# #' 8X' # 8+ #w' JJ#-F-' ' ' ++ 22' 8 ' '
+G# 22##-' &# # #F-' 1#2#F-' 1#2##' F+JH E#' 8>' G8 #w' 8X<F F-' + -'
+8' E' +#8 8 4' # -F+G8 # F-' 2#8 #G8 #-' &F 2# ##' 8 ' G8 #8 -# F-'
J + ' 8F ' / 8+ 8 -#-' J#I# -' J F- ' E8+#JF-' ' J +' # 8

, Y' ; #E8' SFw' E8' H J' $ 8 ' E#J ' -F ' # ' $+ 28G 8 #-

! ! / ! !

+8G F # 8+ #w m,2Y H 8- +E# 2#- I 8 # E # 8+ #
U! Z U H #1 9 2 !) _ ! 8 !
' ; _ / # # , ! 9 2
E#8 & # #J 8 I ## F w &# + # #F- 1#2# - F+JH E# I 8 # +8E#8 - 8
2 J#- + - +# #- 8 8G# 8 -82 {H 8 * 8 m ,AY
F t f 1# #@ , YO G ' ! % 2 , # 8 8 / G
, { / , 8 _ / ,! ,
_ !
! ' * # ! & / , S # ><
!) ! % , # # , # % ! & 5
/ ,! 8 8 ! % , # 8) G
8 ! F+JH8+ JH 1#2# - +E82 J# ' +# JJ#-F- 8- 0
JH + 1#2# 1#2## J +# ' +# 8 JH +F- #- 8 JJ#-F- 8- -8+I#-
< - +8- E#8- < - 8 8 JwE8- <2F+# w 1 J w -# #2# 8+ # 8+ -8 E
1#2# - 1#2## F+JH E# JF2#- I F- -- +#8 -# F- <#-J <F- ' +0
+ 22 SF#8I# # H+#- #-- +#w & 2EF- ' +E82 J # 8 +8G
H #w " #2E - 8 HE8+G ' #J + JJ#-F- 8- +# F- 1#2#F- +0
E82 JH# ' +# JF2#- + F- & 2E ' +# m

, Y E8 H 8 E 8F E8 F ; G#- +#
,AY &# + # #F- E8 SF H#J G# F+ #- 8- JFUF- <8 G2# <2F+# - # 8+ #w +8G# 8- - yJF2 A
-F 8G8+8 E8+#JF- I8+ F2 # F- 1F# 8X # 8+ #w # 8+ #Jw +#G# #- @ J F -J+# F
; G#- +# J#I# - +E+ JH E8<2 + E # J8 E# J F- 8- J+FJ8 ! 2F - E J+FJ8+
! FG8 ## 8 # E8 E J+FJ8 < + Z H8 -# 1##X JF JJ28-##- # 8+ 8E##- 8XJ8< -F
-#2#J ! ! $8 +c 8 $ F2# X 2# 8 # J#I# #- < + 8 # E#1#J# SFw 8+ # 8+ EF - 2 G8
E#--# - J+FJ8- ! ! 8J E# # 8 ! +#G#Ew <8=8+8 @ E8 F+# #F- ' JH2# 8X # 8+
#w JH E## 8G#- 2 #w JF2 - 8+F# E I# 8 8 & JH E ' v+ 2 8X +G# 22#w 8F
I# 2 # < J8 JF 8 + +F GG+8--F- <FE # J828 +# 2 #w - 2 F E#J
7 - # 8118J# @ ! EF- H # 8- H J # F D - % # <8+ 0
E8+#JF ' J]+ 8G8 " J#w SF# + F F+# # ' JH2# -F<+8 F- # 8+ #w 8X
+8 F J# #F- 8- M 8+1F8+8 # 8 J I8 F "# EEr # # 8+ #w /+# - +!
*F% - , ' 2Y G8 #w p+JH#8<#-J < - / -8F H 2#JF- *F) ' # +JH#8<#-J <F-
J#w - *F) , 8X 2 #w) ' 8X #E#w % #
F vh % ea 2n) *F/ , , ' ++ 2Y 8X +G# #2#w # \G#0
2E# 1#2#F- 8X &F 2# ##) *F7 $+# J8<- &8-# +F 8 2## F2 # JF +8E8J# # #
F- 8SF# # i - 8 1y <8E# # ##- J#w B +81 8 -# F- A 2E8 -# F- B +Gy 22[-
A &8-##- 8 2#J###G8 #- &F 2# ## Q &U ' 1# !
B C 4875 H#J w JH+ #Jw 8 # y ## #F SF E 8 <8##J##2 # -8+# # SF# 2# 8+ + E 8-
';'5@= 7 (# # 8 J &I8 #+8
0 0 : ?

C ! ' ! / ! !

2 ' tB' ' 9' 92' !' ' '_' NZ "' ' !') ' ' / 4 ' '
' # ' 8' 9 2' ' E#8' <+# #' U8UF ##' 8 ' XX#X' 2F w ' & JH E'
' ++ 22' 8X' +G# 22#w' + FF-' 8- m' , Y') ' !' ' u ' '
/ ' JJ#- -' 8- ' ' ' ') ' + FF-' 8- '
UL2#' #<' ' W K ' 9 ' !' ' ' w' ' !' ' ' ' 5 , ' K G'
#' ' ' # ' #!' K ' # ' ' #' ' ' ' ' 4 , ' #!'
, ' G , ' ' ' ' ') ' w' !' / ' ' ' ' ' ' G'
!' !' / ' ') a ' w' # ' ' # , ' w' ' & ' '
/ ' , ' ' ' ' , ' !' ' ' ' ' w' ' 5 '
' ' # ' - !' ' ' ' ' / ' w' % ' ' # ' w' '
' ' ' ' , ' , !' / ' ' ' % ' w' !'
@ 9 2' ' E#8' # 8+' EF ' U8UF # ' 8 ' X' 2F w ' ! + G8-' G ' 2#8 #G80'
+F ' P 8+1 +E#w ' ' J2 --8' + - +# +F @ P 8+1 +E# ' I - ' ' + -0'
+# #- ' SF#' # F8+F ' 8 ' 8X<FG ' E =88' I8 8+F ' &8- ##' 8 '
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+ # ˢ 8 ˢ # F E # 8-ˢ G 8ˢ # ˢ ˢ H J mˢ ,ˢ ˢ 7 , ˢ JJ#-F-ˢ 8- ˢ
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& 2EF-ˢ 1#2#F-ˢ 1#2##ˢ + H G# ˢ 8 ˢ &8- ##ˢ --8SFF F+ˢ 8 - ˢ 8 ˢ I#J +# ˢ < + ˢ
E8ˢ 2#8 #G8 #- ˢ 8 ˢ A ˢ JJ#-#ˢ # #ˢ SF ˢ 1#2# ˢ # JHI#2# # ˢ 8 ˢ <+ 8E ˢ +8< + ˢ
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H 2E#ˢ '&#+ˢ JJ#-F-ˢ ˢ 2#8 #G8 #-ˢ I#+#E#-ˢ E 2 -8 ˢ -ˢ 1#2#F-ˢ FG##ˢ SF#0ˢ
8 I # ˢ # ˢ H+#- ˢ ; 8 F-ˢ G F-ˢ # ˢ H Jˢ ˢ J 1#¢8G# ˢ JJ28-# - ˢ E - ˢ 8 ˢ
- 2I - ˢ 8 ˢ 18J# ˢ - + G8 ˢ G ˢ H # F ˢ 8 ˢ +# 8 +F ˢ # 8+ # 8 ˢ -#+ F2ˢ
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8; ;7 1 ˢ (@7?ˢ 7 : ''5'7 1 ˢ 8 ˢ 1 24;458'8ˢ J#I# -ˢ J F- ˢ ˢ H Jˢ JF ˢ -F

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JJ28-# @ ! + G8- G 1 J <8+ ' +# - E8 2#8 #G8 #- <FE I EF
&F+2 --##8 ' J + +F + 8- <2F+# #8 J - +FJ Z <8+ +8G# 8- 0
8 H J &8<+ -E # 8- G 8 -# F2 1 J 8 2#8 #G8 #- #
H # JH ' F+JH8+ #G #c2#F- F+8 H G# GJ#-F- JH##-
8 E8 4)+ 8 8+8G I # / # G# ##2#F- 1#2## + H G# JJ28-# E -
F+ - 8JF2# m -# 8 J -#2# JH +F 8 28+#J +F ,2Y
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5 , #Y # A 8 F 2 E#J _)
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x ! 2 H / j # # 2# 22; #22
[illegible] . = . ~ &&&
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#! 9 2 E#8 ! # _ SF# 2F W / # G8 1#2#F- 1#2## + H G#

B C O=; (55= . =?4 ';78 . 49 O':4 5''4 1'88(5 5 2'(1 4 ('=54 (: O45 ';= , ;=5?' '=548
(;;4@' 6''(71 494 1@2(4?'?' . L1 4 78 (4?4 (=1! @! ! 58 7145 = @ (G<G ' 7 ' 7278
K '5'8 4 =5;= ?'(67(N <(; (<6' (@7? E'5?48:= 4 48 '5 ; ('8 ! ';3(42'8 (55= (: '5;(5(&
K ?=54 5" Z- '5 4 =1 '571 . 4 41 5 2' 4 O! <'2'71 ('2?'8 1@4 (';'8 4 . =?4 ';71
K . 4 41! =55(; 45841 @4 (3=2';71 B I 7<<LC ;:'4@'8;=@71 5(145841 4 (5 = ?41
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-F+G#ˁ#ˁ1+ +8 ˁ-F#F ˁ 8ˁ1+ 8+ˁ 8UF-ˁ J < #I -ˁ 1 J F-ˁ 8X 8 <2 ˁ ˁ I# 44 E#J ˁ<+ < 8+ˁ<+wE -ˁ F2 # -ˁ ˁ8 ˁ 1 J -ˁ E8ˁ # ++ G##-ˁ 8 ˁ E8ˁ ' # E#-Z & 2EF-ˁ ' +# ˁ 8Xˁ #wˁ + FF-ˁ 8- ˁ # ˁ H Jˁ ˁ 8 ˁ 8UF-ˁ 1#2#F-ˁ # 8 ˁ +8G F #ˁ J 18- # ˁ< - ˁ8F ˁ F+JH8+ JHˁ 1#2#F-ˁ & 2E#ˁ ' +# F JF2#-ˁ + F-ˁ ˁ 2#8 #G8 #-ˁ E 2 -8ˁ 1# E8F-ˁ 1#2#F-ˁ G #ˁ ' +# ## JJ#-F-ˁ ˁ 2#8 #G8 #-ˁ# ˁ --82# ˁ 8 -#ˁ 8--8 ˁ -F ˁ<+w-#E# ˁ 8G #ˁ 8 ˁ $ +#J##ˁ "#2E -ˁ 2 8F-ˁ ' # ˁ8 ˁ 8UF-ˁ 1+ 8+ˁ JJ#-#ˁ ˁ 2#8 #G8 #- ˁ JF ˁ 2#J8 # ˁ 1#2##ˁ 1#2##ˁ + H G# mˁ '

' ˁ Cˁ / ˁ 9 2ˁ !ˁ ˁ) ˁ _ˁ ˁ ˁ & ˁ !ˁ ˁ -ˁ / ˁ uˁ , ˁ !ˁ / ˁ ˁ ' ˁ# ˁ ˁ # ˁ / D ˁ ˁ# ˁ ˁ # ˁ ˁ_ˁ ˁ ˁ ˁ# i ˁ ˁ# ˁ ˁ ˁ ˁ ˁ_ ˁ # ˁ ˁZ ˁ -!ˁ & ˁ , ˁ ˁ -ˁ K ˁ ˁ ˁ Gˁ !ˁ & ˁ , !ˁ ˁ ˁ ,ˁ *ˁ / ˁ | ˁ / ˁ ˁ ˁ , ! ˁ # ˁ ˁ !ˁ ˁ #ˁ # ˁ ˁ 8 ˁ , ˁ ## ˁ ˁ / #ˁ ˁ Gˁ !ˁ ' ˁ ˁ ˁ , !ˁ ˁ# ˁ ˁ !ˁ : F#8-ˁ) ˁ ˁ 7 ˁ ˁ / ˁ 8 !!ˁ 9 2ˁ ˁ E#8ˁ & # #J ˁ8 ˁ X I #ˁ 2F w ˁ ˁ ˁH Jˁ ˁ I 8 # ˁ H 2EF-ˁ +F +wˁ # F-ˁ 8Xˁ J#wˁ # ˁ 8 ˁ 8X<FG I# ˁ J J 1+8G# ˁ - 822 ˁ<2F+# ˁ SFwˁ +8 I ˁ1F8+8ˁ # 8+F ˁ 8 ˁ + -## ˁ<8+ˁ # ˁ F # 8 ˁ 2#8 #G8 +F ˁ #F ˁ# ˁ#- ˁ# # 8+8 ˁ 8 ˁ ## ˁ # 8+#2 ˁ 8 ˁ ˁ +8 I 8+- -ˁ 8- ˁ ˁ8 E8 ˁ I 8 # ˁ $H#2#<<F-ˁ -J # -F- ˁ #ˁ8ˁ $H#2#<<F-ˁ E8 P #G0ˁ H + ˁ 8ˁ 2 J#-ˁ + - ## #-ˁ # 8+F ˁ ˁ8 E8 ˁ JJ#-F-ˁ 8- ˁ ' F# J#F-ˁ <#-J <F-ˁ 9 #2 2F8 -#-ˁ< - S [ˁ8X<F2- -ˁ 8--8 ˁ ˁ 8G ˁ8Xˁ8UF-ˁGF 8+ JF2 ˁ ˁE ˁ1#2#w ' +# #ˁ JJ#-F-ˁ 8- ˁ8 ˁ# ˁ +J G# ˁ -8<F2 -ˁ 8--#-ˁ F E -ˁ ˁH Jˁ G8 8+ 2# 8+ˁ : F#8-ˁ & 2E#ˁ '/ # ˁ #-ˁ 2F 18+ wˁ +8 E # mˁ oCˁ / n/ Z 9 2ˁ !ˁ 2ˁ 1 !ˁ _ˁ Z! ˁ !ˁ #228-# -ˁ J8 8-# F-ˁ JH G8-# F-ˁ -8X F-ˁ F-ˁ ˁ# 8 + # 8ˁ & #ˁ) ˁC ˁ) # ˁ , ˁ ˁ 8 ˁ * 2) ˁ ˁ # ˁK # ˁ ˁ ˁ / #!ˁ & 8H Eˁ '& G ˁ JJ#-F-ˁ ˁ +# F ˁ '& JH Eˁ JF ˁ<8+ #--# 8ˁ 1#2##ˁ 1#2##ˁ + H G# mˁ & # F-ˁ I# E#J8 ˁH Jˁ 1 J F ˁ, Y

B2Cˁ s7(1 '8ˁ@27 (ˁ(2'(ˁ3(: 4(5 7 ˁw5 : = ;ˁ =?' ; 4ˁ 8674ˁ (?ˁ (55!ˁ , -ˁ 614ˁ (:ˁ 4=?4 1ˁ (7 ; = 4ˁ 8 ; '@ˁ (?' ; 75 7 ˁ (1 45ˁ (:ˁ '8 '8ˁ (: 8 '545?7 1ˁ @= (' ˁ 5=5ˁ 8=27 (ˁ 67'(ˁ (ˁ @ =@=8' =ˁ (2'457 1ˁ 48 ˁ . 48ˁ O' : 4 &ˁ ''' ; (8ˁ (:ˁ 5 2= 7 (ˁ (? 45 7ˁ 48 (8ˁ ('5 4 4ˁ 4 7 (ˁ 4 '(1ˁ 67=?ˁ 48ˁ (:ˁ (55=ˁ 3= ;ˁ ?4 ; '@ 44ˁ (2'(ˁ 1 (57ˁ 49((8 ˁ 875 !ˁ ^ 4 (ˁ (:ˁ (55=ˁ , -ˁ (?ˁ (557 1ˁ ˁ(:ˁ (2'=ˁ 7 ; = 4ˁ 4 ; 45 '= 4ˁ 8 ; '@ (ˁ <7'884ˁ (2' : "ˁ D\ "\ˁ ˁ 87@ (ˁ @!ˁ !JJ)%=9ˁ " ˁ '5?' ; (4ˁ '? R 7 ˁ 7 ; = 4G(ˁ 48@49'884ˁ <7~ 7'(ˁ ; =5 '5 45 '(ˁ 4 ˁ <= 8(5ˁ '9'884ˁ (55=ˁ 3= ; !!

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54 (78ˢ 48 ˢ '5ˢ @ (42'=ˢ 67=?ˢ 488' ˢ '; = '=84ˢ ; =5 (ˢ = 5=5'45848ˢ (@7?ˢ (=5 L!ˢ : ' ' ˢ (ˢ 7254 ' : 78ˢ
@=8 67(1ˢ @4 45' ˢ 78674ˢ 4 '=541ˢ (8'= 71 ˢ '5ˢ H '?'(!ˢ =58 7; 78ˢ 48 ˢ 4G78ˢ 71 7278 ˢ 4 ˢ 4 4; 71ˢ
(97 1ˢ 84@72; 3 (24 ˢ ; 7" '58; '@ 71ˢ 48 ˢ 5= 54Tˢ 4G : 82' 4 '8ˢ 3(1 ''8!

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'5 ='7 71" 4884ˢ <(45 7 !ˢ '1 78ˢ = ; 41ˢ '8 (=ˢ 14 '= (ˢ 7; '(578ˢ '5ˢ 04 ; 724ˢ] (22' ; =ˢ 7 :" '567' ˢ
ˢ 4884) Kˢ 04 ; 7241ˢ 42 84ˢ 2'5 7(ˢ " # J ˢ 1'71ˢ = ; (5 ˢ 84541 674ˢ <'5 75 ˢ 67" 3=&
Kˢ 1'571ˢ '5 45 41ˢ 1722R 7?'541ˢ (3' ˢ =1548ˢ (<(ˢ (7 ' : 78ˢ 4 '5; =8!ˢ %'5; 72(ˢ 67' : L8ˢ '?ˢ <(; ' ˢ
Kˢ 45748ˢ 875 ˢ ; h 4584 ˢ (7 =424; =6(4ˢ ; =5<4; (4ˢ @72; : 4 p5''8ˢ 1 =5'2 : 78ˢ (88' 1 '2; 8 ˢ 67' : 78ˢ @4 <= ((ˢ
Kˢ 871 1 (ˢ 4" 2'5 7(ˢ 75?4ˢ ; (; 572(71ˢ 871 5(8ˢ (5848 '; = ˢ 54; 4 4 ˢ 49 : (;ˢ p=8ˢ (' " <(; ' ˢ (2(; 48ˢ
Kˢ ?7; 45 4 1ˢ 2(7?(5 48 ˢ 72 =ˢ <48 '5(5 48ˢ =5 548ˢ 4 ˢ 67=?ˢ (5 4 4 4 4ˢ 42'5' ˢ '5; 7271ˢ 2(9(5 48 ˢ @4 &
Kˢ '5?4ˢ 67(8" (' 4 ˢ 2(7 " 8" 8=2 4 45 7 ˢ 084;ˢ 4 =ˢ ?'7ˢ ; =58 ' " '5 7458!!!!!!!!!! 4?ˢ ˢ 67'?(1
Kˢ (8 (58 ˢ 45 '8ˢ '22'78ˢ 7 ˢ @7 =ˢ 3'2=8=@378 ˢ =ˢ '<(' ˢ '567' ˢ 3=8@48 ˢ '; 7 84ˢ '8 '78845' 1 (ˢ 49@2' ; (: =!ˢ
Kˢ ('=541ˢ 5=8ˢ ˢ 5467h67(1ˢ (: ' (1 7 ˢ 4884ˢ 4 ; 7 '71 ˢ 6741 (? (=?''1ˢ =8ˢ] ^ ; ' ˢ 4 71ˢ
Kˢ '22(1ˢ 2; ; 72" ' : 7' 1 78 ˢ 67'(ˢ 4 ; 7 '=ˢ 2=5 4ˢ = : 78 '= ˢ <7' !ˢ :ˢ (7 ' : 78ˢ '5; =8ˢ (?ˢ 2'5 7(1ˢ (&
Aˢ 3' ˢ 3' ;ˢ 04 ; 7248 ˢ '41@4ˢ (< =! !!ˢ =8ˢ 04 ; 7241ˢ 67'?67'?ˢ 4 ' ˢ '?ˢ # ˢ ; =5<4; '884 ˢ 7 @= 4ˢ
Kˢ ' 71ˢ 8(@'45 4 1 ˢ 4 ˢ @24'*(674ˢ @4 87(8'=54ˢ 8'<(" 87 : 4 '884ˢ ?' ; ' 1 78!ˢ 0(; 4578ˢ 42 78 ˢ (674ˢ 3'5;ˢ
Kˢ 04 ; 7248ˢ (ˢ 42 '8ˢ - ˢ ?' ; ' 7 !ˢ FB , C

s 7=?ˢ 8" = ; '8ˢ 4 L 1 =5ˢ 8@4; 4 (78 ˢ 5=5ˢ '8ˢ 871ˢ b :p (H 2'5 7(8ˢ @4 4 '5(8ˢ 4; = 4 1ˢ 4<4 ((ˢ 7 ˢ 8=2(ˢ
@ =575; '('=54 ˢ ; 2ˢ = 3= (@3'(ˢ 8' 1 '2' 7?'541ˢ 67=5?(1ˢ ; (@ (58 ˢ 14'@871ˢ (2'=8 4ˢ ?4; '@'(1 !ˢ 227?ˢ
(7 4 1ˢ ('=5" ; =5845 (5471ˢ 48 ˢ 7 ˢ 5=5ˢ (2'75?4ˢ = ; '8ˢ X2 '; (8ˢ = ' '541ˢ 4 ˢ 845871ˢ 67(1ˢ 49ˢ '@8(ˢ
2'5 7(ˢ 42 '; (ˢ 49@'8; (4ˢ ?4 : 4(1 78 ˢ 4=?41ˢ 1=?=ˢ 67=ˢ = ; 71ˢ 04 : (' ; (_1ˢ 845871ˢ 49ˢ 2R5 7(ˢ 04S
: (' ; (ˢ '@8(4ˢ (; (4ˢ ; '@ 7 (4ˢ ?4 ' (5 ˢ B Cˢ 4 ˢ 67=ˢ @27 ' 1 ^ˢ = ; 48ˢ (5 '67'88' 1 9ˢ (1ˢ] 4; (4ˢ 67(1ˢ
(R51 ˢ 671 '5ˢ '8 '8ˢ 2'5 7'8ˢ 5'3'2ˢ 8' 5'<' ; (5 ˢ '5ˢ 04 : ('L(ˢ 3(2?(' ; (ˢ (2''8654ˢ (5 '67'88' 1 '8ˢ 2'5 7'<
@'454ˢ 4 ˢ @'(54ˢ '5 422' 75 7 !

. =V2(5?78ˢ = ; 4 1ˢ - ˢ '5ˢ E (22' ; (ˢ 2'5 7(ˢ ' 5= (1ˢ 4884ˢ ?4; 2((ˢ 4 ˢ 5722' :" 45 '71ˢ G(1ˢ 787 S
@(Hˢ 5'8" '5ˢ 8=2(ˢ 0' : 4 5'(ˢ B Cˢ '5ˢ 67(ˢ %=9ˢ =4 ((ˢ ' 5'<' ; (' ˢ 7 ˢ Kˢ $ ˢ -Bˢ W ' : 78ˢ = (ˢ =4&
(71 ! ˢ %=9ˢ 3(4;ˢ '5ˢ 45' ' =ˢ 8; ' : ' 7 ˢ ˢ ˢ Kˢ ˢ U; ˢ 1 #ˢ ˢ ˢ # - ˢ ˢ - Bˢ W I 75ˢ ' ˢ 8; '45&
'88R 1 78ˢ =4 (71 ! ˢ (5?41ˢ = ; 4 1 ˢ 7 @= 4ˢ (5 '67' (4ˢ @454ˢ = : 8=24 (1 ˢ I 24 '78ˢ (2''8ˢ 4; 45 '=''&
: 78ˢ 49@2' ; (ˢ '5%= ; (: 72('=ˢ 8' ; ˢ K ;ˢ * * ; ˢ * Pˢ $ ˢ ˢ Jwˢ ˢ ˢ 1 Bˢ W ; ˢ '!ˢ 4!ˢ =4 (

B Cˢ %'?4ˢ =24 = 1 !ˢ @5 !ˢ 2''" 4 ˢ 4 ' ˢ 49ˢ ' 4 5(; 3@ ˢ =41(5= ˢ = ; 3=?'= ˢ 4 ˢ 2(55=!
ˢ B , Iˢ 7; '(5" @4 (ˢ] 54; =& (!ˢ %('= !ˢ '''8 42=?!ˢ < ˢ !ˢ , ˢ @!ˢ -& &Z!ˢ =5<4 ˢ ; (ˢ ; (?!ˢ . 4 ' ' ˢ 7 : 2G2'" !ˢ ' ˢ
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U Cˢ] 4548'8ˢ ' ' ˢ Z ˢ 4 ˢ ' ' ' ˢ , Tˢ B Cˢ =5(5 '6 ˢ 9 (?!ˢ Z ˢ @!ˢ !

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$ 172 ' 7?= =; (71 (2'(8 = (' ':78 =4 (''5! B C (5?4 (' =;41' ''8 2;5 4 :'8' 49@2';(' 49 24 '= !23VL?78 '5 ;3A=2= '(' 4 78 67=5?(1 5'478 '5 := (' 1('5(24! '5 945'@2(=V4584 %=;(:72(' 0':4 5';' '567' K - 5=145 @ =@ '71 ' 67=? 8(@'45 4 (' 8' 5'<';(' 4 K <= 41 7 - 0# (@'458 =2('8 4 :'54 1'78 04 ;7248 '5 4 42 (8\I B,C

?4(5?41 (?';41 4<4 7 =9 0':4 5';(' ;'45 '(' 7 A - -7 - 7 B W(:8674 @4 ' '(' (:8674 '5 45'=! 41 6 - =41(' =41(' 42 '@8(' =41('8 ;=1@=8' '=!B C ! 5?4 *&\\(~5 42 0& (~5 48 ;'45 '(' 0(:4178 p (674 '5 2'5 7(' 0':4 5';(' (?';4 (=;'8 - 5=5 2=5 '78 @4 ' (5' 5=5 (' ! '5458':78 42 (' (@=5458':78 84? 4!9 '@8(' 2'5 7(' 42 ';(' 67A @ '1A (' 48 4 (:75?(' (5 '67'88'1'8 =;':78 (5 42' '=8'8 67(1 3'8 = 'X'8 67A (: 4=?41 <=5 4 7'?';= ?4 ' (5 7 75?4 . 42' '= '5& 5872'8 ' (55';'8 ?4 '& (5?(' 48 ! ;;4?' 67=? 7'?71 ?= 67= 71 7578 =;4 ¥ - 7;'(5= 49@2';(4 ;=5(78 48 '5 5872(8 ' (55';(8 (' 3 5';':78 = ' '541 3z:7'884 ?';45?78 8' ! '@3= '=5 '5 4@3(5= L (5 '54 '567' '54 (7T (' 3 5';':78 -7 (@@4'2('! 048L;3'78 4(1 (' (@@422('567' '5 34:('?;! 5 '67'88'1(1 4884 3(@; '54 A (@@422('=541 ?41=58 (' '5 L 3=2= ';'8 (55'4 4 (' =;4 0':4 5';(' - ?4 ' (' #4L824 (7; = ' (8 1(5'<48 4 ;=5<' S 1d ! B C =;3(78 ?=; 4 ?41=58 (' 2'5 7('= 42 ';(1 67(1 172 (' 3z:7'884 %=;(:72(' 75';(' 8' 4 04: (';(' (5 '67'88'1(' 7 '5?';(5 4= 71 ?' 5' (71 4 =<'<';'= 71 5=1'5(' 67A 2';4 5=5 @ =:(5 2'5 7(1 42 ';(1 <7'884 75';(1 42 3 0'4'(`H ?'(24; 71 5(5] (2B ;71 5'8 5=5 &(4:(5 (:8674 '5 4 @ 4 4 B-C (145 (@4 4 @ =:(5 8' 4 @4 ; 4: (';=114 ;'(' 8' 4 @4 3 5';7'5 ;=2=5'(8 67(8 7:'674 4 (71 1'84 75 172 (' =;(:72(' 75';(' (@7?] (22=8 '5 787 <7'884 67=? 4 ?4 E (22'8 4 0':4 5'8 48 (5 7 884 '78 B C = 2(8478 (9 4 78 4 ?=; '88'1 5 2= 71! BZC

=1'5(' 4 78 (' 4= 71 35';= 71 0':4 5'A 4 (5 @2(54 75';(' 7 @ 0# # # t ;! 5 < ((45 '8 (5;3=5'(3=5'8 67=8 49 75';(' 2'5 7(' (?79' 3`'=& ':2'78 4 84 L(' 784:'78 24 '178 @ ' 4! ;42 ='5'571 4 ~ % @ ! 4! 2 =5 41@2(= 41 @ A;'@7=8 <7'884 3 5';71 4=8! 67 ' <74 4 @(' 4 ' @'&A;'@7 35';= 71 0':4 5'A B C 54;' (: (2'= <=5 4 =9 42 ';(' - ?4 ' (5?(' '?4 7 67(1 (: 6= 5?4 ?4 ' (7 %=9 4 78 '88'1(' 0':4 5';(' 0#\ =2 75?4 0=14 @=22= 0#' Z 4 =9 4 8(;4 4< # (;4 ?=8 75?4 # ('5= _1 ' 41674 =9 # (78 75?4 7'?(' (2'A674 @27 ;8 (? 5';(8 = ' '548 4<X 45?A 7 (2': '5?';('! BMC

(;4= ?4 = ('=54 75';(' 0(5 =7'8 '5 2(7 572= 67'(' 4 8 (' ; (88'= ':7 145?'8 @7 ((' 493':4(7 (' 4 ' 4 4 =;3(2= (2?4 (145 ;= 7@ (1 4 '5;4 (1 4884 54;4884 48 '54;' 1'578 ?4& = (' 875 4 :(' 0':4 5';(' 67A ;71 ''8?41 ;42'((' 493': 5 7<! B C) 0'8 @45' 78 84@=8' '8 @2(54 ;=58 (' (1 2' 4 (71 67(1 7'?';A . 42' '=5'8 '5 '(' (' 3 5';':78 (? 7 =@4=8n (57'8 - (5 4

B C I 4 L' 1 6 #' 1 # ! ! 4! %==(:72= '71 %=;71 ?'<<';'2'71 0':4 (';(71 ! = (& '''' '@! ! B C I '45 %=;(:! 0':4 5! 941@2(=V4584 @! Z,& J
B C %=;(:! 0':4 5! @(! - ':'? 5= ! 1(! =5<4 7224 41! 87 24 (5 74 42 '674 (48(5;=5 <=:' ! @! , ; (; 7 '5 '83 '4 ! ('8 Z , @! Z !
B C #4'824 5 '6! 42 ! =5<4 :84 ! =5 34 2@3(:4 =< 34 ((5 '83! ;3'4(2! ! Z =! !
B-C =;3(2':'?! B C ''5= ?! ;! 7:' ?= =;4 # ' ' (8!
BZC = 2(84I8 = 5V(22! (9 4 I8] 2=88(L! 23VL? ;31=2! ('8 F '4 ! =8 42 ! ?4 ,'1 '5 7'8! =93= 5 ' !] (2! ;! Z! B C '884 ?4 . 42' ! 35';= ! 0':41'44 4 =24 =1! @! 2'9 99'J '9;''!
BMC :'?! B 88(L =5 34 5 '6! =< 2'4 '83 (5 !

5J 71ˢ 3 '8 71ˢ @ =<279'884!ˢ B Cˢ (?171ˢ 34:'8ˢ'5ˢ U L@ =ˢ= '75?'H5'ˢ 4 5(5 4ˢ w0p\ =ˢ2' 4 (8ˢ ':"?'?';'884ˢ (5 467(1ˢ '5ˢ] (G;'(1ˢ5(' (4 ˢ 8; ':75ˢ ='1''8ˢ 4ˢ O4 =?= 78ˢ 67" @ (G 4 4(ˢ'5S 67'ˢ =548ˢ (5 '67'88'1=8ˢ] (G;'1ˢ/5;=2(8ˢ2' 4 (8(ˢ 3=4(';':78ˢ?'?';'884ˢ4ˢ84ˢ '?'884ˢ'58; '@ '=548ˢ 67':78ˢ 5'3'2ˢ3(:7'ˢ] (G;'(ˢ (5 '67'78ˢ 67(8ˢ (@7?ˢ 34:(8ˢ ;4= '(8ˢ'5ˢ 41@2=ˢ @=22'5'8ˢ84 (:(5 7ˢ 4ˢ2' 4 '8ˢ ˢ'5;'8^ˢ 4 (5 ˢ (5 '67'8ˢ 2=5';'8ˢ8'1'248!B,Cˢ 4?ˢ;7G78ˢ<= 1^ˢ<7; '5ˢ548;'178!

(?171ˢ 5=5ˢ (2'71ˢ<7'884ˢ =@'5= ˢ67(1ˢ ˢ =; ("<'2'7 (ˢ (ˢ67=ˢU?p L@ '= 71ˢ @' 4ˢ!

ˢ 4ˢ 4 (ˢ'@8(ˢ' L@" 4 (ˢ 4ˢ B Cˢ 4ˢ 3=45';'(ˢ 4 (ˢ 'U(V((5ˢ 4ˢ (3(=ˢ '@8(ˢ(@@422((ˢ48 U *C

2'" (?171ˢG L@ '71ˢ<7'884ˢ8; ':75 ˢ< 2'" 3(2?(5G1!ˢ 5= (178ˢ 4 '(1ˢ 67'8ˢ<74 'ˢ 3=45'9ˢ ;71ˢ (2'" @(' 4ˢG L@ '71ˢ<7'884ˢ8; ':(5 ˢ(2'" 3(2?^71!B-Cˢ s7'8ˢ2' 4 (7'5ˢ'5 45 =ˢ<74 'ˢ541=ˢ 3(; 4578ˢ'5?(('!ˢ '5'78ˢ ;=22('8ˢ'5 ';41ˢ (5 '67= 71ˢ 48 '1=5''8ˢ 1 # ˢ4884ˢ2' 4 (71ˢ787 (ˢ =@'5(7 ˢ 5;674ˢ 45 48ˢ(5 4ˢ '27 '71ˢ (:8674ˢ2' 4 '8ˢ<7'884ˢ; 4?45?71ˢ48!

ˢ =41"<'2'=ˢ< ˢ?'; =ˢ ˢ ˢ< ˢ4ˢ! ˢ2' 4 (8ˢ 3(2?1'8ˢ (?' (8ˢ<7'884ˢ(ˢ 3(2?1'8ˢ 3= 5';''8ˢ 4ˢ 'p L@ ''8ˢ 4ˢ (ˢ 3=45';''8ˢ 42 '8ˢ =15'(ˢ 671ˢ 1(545ˢ 48' '(ˢ?41=58 (5!ˢ ' 4 (8ˢ 7'?'8ˢ ' (55'8ˢ5= (8ˢ<7'884ˢ;424: 4ˢ! (48= '8ˢ 48 '1=5'71ˢ?4;2((B Cˢ4 2'=45';7 (ˢ ;=1S 14 ;'(ˢ;71ˢ 5872(ˢ (; (ˢ " ˢ@ =@4ˢ ' (:5'(1ˢ8' (!ˢ O(55=5'8ˢ'@8'78ˢ 4 :(ˢ (:ˢ '454ˢ 84 ((ˢ 48 (5 7 !BZCˢ O'o4ˢ 4 78 '88'1(ˢ 2':4 5= 732ˢ (?' '=ˢ. @1 #@ ˢ'!ˢ4!ˢ 45'71ˢ%' 71ˢ (@'45 41ˢ ;= = 71ˢ 5G= 48ˢ?79'884ˢ (:ˢ= '45 4ˢ 8 L@ 71ˢ 75?4ˢ (58'4 4ˢ <';(1ˢ4ˢ :4 '((ˢ ;ˢ@=8 4(ˢ O':4 5'(1ˢ4ˢ2' 4 (8ˢ4'8ˢ?=;7'884ˢ?'; (8ˢ ˢ ˢ 8 ˢB Cˢ (674ˢ; 8" 4 5572" '5 4 @ ; ('=ˢ O':4 5';(ˢ@45' 78ˢ 4G';'X5?(ˢ4884 ˢ 4pˢ67'(ˢ ; ':(71ˢ4 = 48ˢ?4;'@'75 ˢ 42ˢ67'(ˢ 4; (ˢ =;71ˢ@ =575;'('=ˢ5=8ˢ<7 'ˢ 42ˢ@ =@ 4ˢ17 ('=548ˢ67(8ˢ2'5 7(4ˢ<4 4ˢ=1548ˢ 87:' 4ˢ;= 75 7 ˢ 42ˢ ?41''1ˢ@ =@ 4ˢ@4 4 '5(! =;(:72(ˢ67^ˢ'5ˢ 445= 71ˢ2'5 7(1ˢ' 4@84 4ˢ;71ˢ (145ˢ. 42' '=ˢ ˢ (:8674ˢ?7:'=ˢ'5ˢ 5872'8ˢ ' (55';'8ˢ49 ' 4 ' ˢ4ˢ;71ˢ (?' '=ˢ@ ('?'; (ˢ(ˢ1'224ˢ4ˢ(1@2'78ˢ(55'8ˢ8; '@ (ˢ 8'ˢ (;ˢ 4 8':78ˢ84 ((ˢ 4 78 '88'1'8ˢ O':4 5= ((ˢ 5722(1ˢ '?4=ˢ ('=541ˢ;7ˢ 9ˢ - ˢ5=5ˢ8'ˢ(:ˢ ''8?41ˢ = ' '5':78ˢ 4@4 45?(!ˢ L@ '= 71ˢ ;3((; 4 48ˢ (:ˢ '5' '=ˢ Kˢ# ˢ?48; '@ =8ˢ <7'884ˢ '5?';(5ˢ4 '(1ˢ< 7 '4ˢO'4 = 2L@3';^ˢ 6784ˢ 7:'674ˢ (?ˢ2'54((ˢ 4; ('5ˢ(;;4?75!

s7=?ˢ 8" =:G';'(7ˢ ;3((; 4 48ˢ 3(1'=8ˢ2=5 4ˢ ?'8 (4ˢ(ˢ 3=45';''8ˢNˢ 87: 45'(ˢ(5 '67'88'1=8ˢ 3;45';71ˢ4ˢ ' L@ '= 71ˢ ;3((; 4 48ˢ ?48'?4 ('!ˢ @8" 24: (p" 87(71ˢ2' 4 (71ˢ<= 1((ˢ 4

N^aˢ ;(2' 4ˢ(?ˢ 784:!ˢ5!2 Z!ˢ 27 (;3" L1@=8!ˢ !Mˢ =:241(ˢ,ˢ4ˢ !ˢ]'::=5ˢ 4;''(5?ˢ (22ˢ !ˢ ˢ !ˢ ˢ@!ˢ,-ˢ 4ˢ5='!ˢ ˢ@!ˢ' !ˢ =5?!ˢ ZZ !ˢ =;3(5ˢ] 4= !ˢ (; !ˢ !ˢ ˢ@!ˢ ,-!

B,Cˢ O4 =?= !ˢ 4 @8';3= 4ˢ;!ˢ- ˢ 4?!E ;8842'5 ˢ@!ˢ M !ˢ B Cˢ (;=:ˢ(;;=2(ˢ<7'ˢ'5ˢ 4 (ˢ ˢ 8(2!ˢ;' ˢ,,!

B Cˢ Gˢ (?'1'8J8ˢ2(34ˢ 45= ˢ'8ˢ 4@ 4845 4?ˢ:Lˢ =17'8ˢ / !ˢ ˢ;ˢ, ˢ@!ˢ Cˢ (8ˢ 48'?'5ˢ(ˢ 34:48ˢ'5ˢ L@ˢ'5ˢ 34ˢ Gˢ 4ˢ 5ˢ=<ˢ# '5 ˢ - - ˢ O4 4ˢ'ˢV(8ˢ 3(ˢ34ˢ24(54?ˢ 34ˢ;3((; 4 8ˢ(':7 4?ˢ @ˢ3'1ˢV3';3ˢ34ˢ;('4?ˢ =ˢ '?=5ˢ(5?ˢ Fˢ L '(ˢ V34 4ˢ34ˢ 4ˢ 54?ˢ'5ˢ;=5G75; '=5ˢV' 3ˢ 2'=;5'8ˢ:4<= 4ˢ34ˢ@(884?ˢ'5 =ˢ] 44;4ˢ (8ˢ 784:'78ˢ8 (48ˢ'5ˢ3'8ˢ 3 =&ˢ J05';24!ˢ =1ˢ 34ˢ 4?"ˢ'82(5?8ˢ2'4ˢ@(884?ˢ'5 =ˢ L:'(ˢ V34 4ˢ 34ˢ '8ˢ8('?ˢ =ˢ3(4ˢ<=75?4?!ˢ ˢ;' '48ˢL: ˢF ˢ ˢ Iˢ <';(ˢ!ˢ 7 ˢ 34ˢ(;3'4 4145 8ˢ(':7 4?ˢ =ˢ (?178ˢ 2'm4ˢ 3=84ˢ (':7 4?ˢ =ˢ 4 8478ˢ(5?ˢOX ;7248ˢ V4 4ˢ5= ˢ=<ˢ Fˢ=54ˢ@4 8=5ˢ= ˢ=<ˢ=54ˢ(4ˢ:7ˢ=<ˢ 34ˢ 3=45';'(5ˢ =2=5'48!Q) L(5ˢ L 3=2!ˢ !ˢ, ˢ@!ˢ !

B!-Cˢ 15'(ˢ67^ˢ?=ˢ (?1=ˢ<4 55 7 ˢ<(:72'8ˢ'5 =27 ('875 !ˢ (?178ˢ7571ˢ48ˢ49ˢ5= ('5':78ˢ ; ;7 ''!

B Cˢ Kˢ '8;'@2'5(ˢ'5ˢ ' (55'(ˢ 4@4 (ˢ (654ˢ'5?4ˢ'5ˢ] (22'71ˢ (582((ˢ4884ˢ49'8 '1 (7 ˢ 4ˢ575;ˢ67"?'2' 45 '78ˢ4(5ˢ Kˢ 41ˢ;= 5=8;4 4ˢ =275 ˢ@24 71674ˢ'2'=ˢ ˢ ˢ@ =2';'8;75 '' Qˢ t ;!ˢ 18(ˢ?4ˢ 42!ˢ] (2ˢ ! ˢ;!ˢ !

BZCˢ%'?4ˢ 57(2ˢ 2 =5!ˢ 55='ˢ@!ˢ ˢ4ˢ =24 =1!ˢ@!ˢ999 ''ˢ92''ˢ29!

B Cˢ =5<4ˢ ';;3" ;@ 458'8ˢ@=41(ˢO':4 5';71ˢ 147" "4?' 71ˢ(ˢ =2 (5=ˢ;71ˢ (4217 '2ˢ< (145 '8ˢ14 '4'8ˢ '4&ˢ ;72"'9ˢ'5ˢ =24 =145'8ˢ@(!ˢ99 'ˢ999 '''ˢ92''ˢ 9'''ˢ2!99' ˢ 999 '''ˢ4ˢ;71ˢ =?';4ˢ # ˢ (88'Hˢ(:ˢ ˢ ˢ # ˢ 8 24ˢ ' !ˢ=<ˢE ' '5 ˢ@!ˢ , !

2'5 7(1ˢ '@8(1ˢ '5ˢ ;(@ ' ' (4ˢ @4 ?'?4 4ˢN 2' 454ˢ 45'1ˢ (1(' (5Uˢ 4?' (8ˢ (*E (2 =5=ˢ (5 4(ˢ4 (5ˢ
+O4: (';(4ˢ 9' =674ˢ @=@72=ˢ ;=1 17548ˢN 8? (8ˢ (7 4 1ˢ @=8ˢ 4?' 7 1ˢ (; =8ˢ =?';48ˢ 4 '8ˢ
88L ''8ˢ 847ˢ 3(2?(';'8ˢ @=@72=ˢ 1('8ˢ5= '8ˢ ?48; ':458ˢ @ ='&48ˢ (1(' (7'8ˢ ?4 42'67' !

ˢ 4 8ˢ <= 1(8ˢ '5ˢ ;(@ ' ' (4ˢ @4 ?'?4 '5 ˢ '5ˢ 787ˢ (145ˢ (5 4(ˢ<7'884ˢ 541=ˢ 54 (:' !) ˢ @(ˢ
;9 ' 4 4ˢ(:ˢ'5' '=ˢ <= 1(Nˢ (? (4'(8ˢ 575;ˢ ?4@4 ?' ^ˢ4ˢ' 5= 4ˢ67^ˢ@ =;72ˢ ?7:'=ˢ8'1@O;'88'1^ˢ<74 4ˢ
r4ˢ 4; '2'54^ˢ5ˢ <(22= ˢ7ˢ=1548ˢ <4 4ˢ<' 7 ^ˢ(5 '67'88'1^ˢ' L@ '(;^ˢ67^ˢ2'54'8!ˢ 4; '8ˢ @24 71674ˢ
?4@'; ^ˢ '875 7 ˢ67=?ˢ (1';78ˢ?=; '88'178ˢ~ - ˢ '5ˢ @4 4ˢ4 4 '=ˢ ?4ˢ :42'8;= 71ˢ ' '54ˢ 5= (&
' !ˢB C) ?7(ˢ '1@ '1'8ˢ 48ˢ48ˢ 4 7 (ˢ'5 45 = 48ˢ'5?((4!) ˢ ?';('5ˢ 67=?ˢ 8!45 '(1ˢ 1'5'14ˢ
('?4ˢ?=; '88'1ˢ 'ˢ845 45 '(ˢ 67ˢ2' 4 (71ˢ= ' '541ˢ 4<4 ˢ(?ˢ ' ˢ@ '=8ˢ 5= ˢ(2'(ˢ;4 4ˢ ('=54ˢ
87< 72 78ˢ5'8ˢ67'(ˢ $ ˢ(5 '67'88'1(ˢ875ˢ'58; '@ (ˢ 454 '8ˢ 37 ((5ˢ 1=57 <'45 (!ˢ ' 4 (71ˢ'5&
45 '=ˢ 7 ˢ 42'67(ˢ67^ˢ8@4; (5ˢ(?ˢ (5 '67'88'1(8ˢ 4 1 1ˢ= ' '548ˢ 2(74 75ˢ]'[^;=8ˢ .=1(5=8674ˢ
; '@ = 48ˢ ^674ˢ (;ˢ5=8ˢ 4ˢ8=5=8ˢ @'5 4 4ˢ 48ˢ '?4 ˢ' (ˢ?'<<';'2'8ˢ (674ˢ' (ˢ49 (ˢ;=1 1754 (ˢ;= '&
r ('=571ˢ (1' 41ˢ @=8'2(ˢ =4 (ˢ'@8=ˢ<(45 4ˢ 7ˢ '9ˢ@'' 4 (78ˢ (2'75?4ˢ6_(1ˢ(:ˢ'@8=ˢ ^2=ˢ= ' '541ˢ
3(:4 4ˢ@= 7'884!ˢ (ˢ4 '((ˢ (@@(4ˢ'5 4ˢ=15'71ˢ 2@3(:4 = 71ˢ ?4145 (ˢ (<<'5' (8ˢ7ˢ(?ˢ ;=117&
541ˢ =15':78ˢ = ' '541ˢ 4<4 ˢ @=884ˢ '?4(5 '' !ˢ ^ 4 4(67=?ˢ =1548ˢ 45 48ˢ 67(8ˢ (5 '67' 78ˢ
2@3(:4 =ˢ 78(8ˢ 5= '178ˢ7571ˢ 4 ^ˢ (; 71!;=5 '5771ˢ=;;7@(4 4!ˢ (4ˢ 4?' 4 (547 =ˢ;' &
;71G(;45 41ˢ4ˢ'5ˢ '45 41ˢ'5?4ˢ@= 4; 71!ˢ s7ˢ 72 4 '= (ˢ 4574 75 ˢ7 @= 4ˢ2' 4 (71ˢ49@4 48ˢ
(:(ˢ?';4:(5 7 !ˢ s7=?ˢ (?ˢ ˢ('54 ˢ'ˢ 67ˢ '5 45 41ˢ4'8ˢ ':775ˢ(5 '67' (41ˢ4 4 '4ˢ 4&
<42275 7ˢ (ˢ; ˢ;,# ˢ '5ˢ '884 ('=54ˢ?4ˢ .75(<71ˢ'5ˢ 74;'(ˢ(5 '67' (4ˢ 7:ˢ 54 (ˢ4 '5 ˢ@=884ˢ
@ =:(:'2ˢ('67=ˢ(7145 =ˢ67=?ˢ .75^ˢ7'2^ˢ49 ' 4 '5ˢ (5 4ˢ ^ 7271ˢ 3 '8 ˢ67'5 71ˢ 54;ˢ (2'7?ˢ
4884ˢ .75(8ˢ (884 ''ˢ67(1ˢ2' 4 (8ˢ ('5(8ˢ 4@ 45 '=5(2'71ˢ 45 '71ˢ787ˢ(;;=1 1=?((8ˢ 67 ?ˢ4ˢ
~ - ˢ(7; = ' (4ˢ;=5<' 1(7 !

5 '67'88'1(ˢ ; 71ˢ371(5(71ˢ 141= '(ˢ67(1ˢ 45 48ˢ493':45 ˢ4(ˢ48ˢ67(1ˢ :84 ('=54ˢ 8S
=5=1'4^ˢ 3(2?4= 71ˢ@ ^:45 ˢ67(8ˢ 42ˢ (;4 ?= 4~ˢ 249(5? =ˢ=: _24 4ˢ2(4 ;72'8ˢ ;=; '2':78ˢ'5;'&
8^ˢ67=ˢ 41@= 4ˢ'5 458ˢ 42ˢ 41@271ˢ'5ˢ14?'(ˢ (:L2=5'(ˢ8' 71ˢ:'148 ˢ ˢ3= ('571ˢ 2(:= 4ˢ
48 (7 (' !B,Cˢ :84 ('=548ˢ '8 4ˢ 4 =ˢ ?7; ^ˢ (8;45?75ˢ(?ˢ(571ˢ;45 48'171ˢ(ˢ '27 '=ˢ(5 4ˢ
(:L2=5'(1(:ˢ 249(5? =ˢ;(@ ((ˢ M !ˢ (71ˢ 141'54 4ˢ =2='5 478ˢ4ˢ O'@@(;378ˢ ^674ˢ (;ˢ
2'5'78!ˢB Cˢ 4''4 4ˢ(7 41ˢ ;3((; 4 48ˢ o4674ˢ @=887178ˢ 49ˢ 3(2?(';'8ˢ67^ˢ49 (5ˢ(884 4 4ˢ(5 '&
67'= 48ˢ 5=5ˢ <7'884ˢ <= 1^ˢ 2=5 4ˢ ?' 4 8^ˢ O4 =?= =ˢ 48 (5 4ˢ (5 '67(8ˢ 2' 4 (71ˢ <= 1(8ˢ '117 (&
(8ˢ4884ˢ4ˢ?4@4 ?' (8!B Cˢ 4;ˢ1' 71Jˢ;71ˢ5=8 (ˢ^ (4ˢ 37;m<= ?78ˢ;= 7@ =ˢ4?'?4 ''ˢ'58; '@ '=548

<'Cˢ #=5'Aˢ'5ˢ<=2'=ˢ ZMZ!ˢ 4; !ˢ ˢ@!ˢ ˢt;!ˢ@!ˢ M ˢt;!ˢ@!ˢ!M,-ˢt;!ˢ@!ˢ-- ˢt;!ˢ (' Xˢ?4ˢ '@2@1!ˢ ! ˢ@!ˢ !
B,Cˢ = @''L '78ˢ(@7?ˢ '1@2';'71ˢ'5ˢ =1145ˢ'5ˢ !,ˢ '8 !ˢ;!ˢ !
B CˢFˢ ' 4 (8ˢ841@4ˢ(:' 4ˢ 88L''(8ˢ<7'884!ˢ 4?ˢ(2'ˢ(@7?ˢ q L@ '=8ˢ(ˢ 4 ;7 '=ˢ 7]42O78ˢ (2'ˢ(@7?ˢ L =8ˢ 4@4 &
Kˢ (8ˢ =27(!!!!!!!!!!!! 5';2'?48ˢ '5ˢ q L@ =ˢ '5 45'884ˢ 6741?((ˢ 5=1'54ˢ 45=5(ˢ (?' ˢ 9 ˢ(55'8ˢ(5 4ˢ 3= =5A71
Fˢ(5 '67'88'171ˢ] 4;'Aˢ .4 41ˢ '?674ˢ 1=57 645 '8ˢ(@@ =:(4ˢ;=5(7 !ˢ ˢ?' 4 8=ˢ @' 4548ˢ(@7?ˢ (:L2=5'=8ˢ 4499ˢ
Aˢ(55= 71ˢ=:84 ('=548ˢ8'?4 71ˢ;=; '2':78ˢ2(4 ;72'8ˢ '58; '@ =8ˢ?=;4 ˢ ('8ˢ(7; =ˢ'5ˢ@ '1'8Nˢ 67ˢ 1'5'171ˢ 4 =878ˢ
rˢ4ˢ '' =?4178;;;;9;ˢ(55= 71!Qˢ 2'5!ˢ !Zˢ;!ˢ- !ˢ4?!ˢO(?7'5ˢ !ˢ ˢ@!ˢ !ˢ = @2'L '78ˢ(55= 71ˢ<7'884ˢ8; ':'ˢ M !
B Cˢ O4 =?= ! 4 @8';!;!- ˢ@! M !ˢ4?!E48842'5 !) 345'458;8ˢ@= 71ˢ(?1 '84 4 '@3(:4 71 2L1@'(?4ˢM-!ˢ O(@=&
; (!(@7?ˢ 784:ˢ 3 =5!ˢ4ˢ 2'(5?24ˢ 58; '@ !ˢ'5ˢ 8'(ˢ '5= ˢ@(!ˢ,ˢ5!2ˢ, !) 722=ˢ 1=?=ˢ ;=58 (ˢ;=G78ˢ 454 '8ˢ
<7 '5ˢ8(= ˢ2' 4ˢ (8ˢ'5ˢ 4 =4ˢ4ˢ'5ˢ (:L2=54ˢ67':78ˢ 8; R@8'884ˢ 41=; '71ˢ(7; ='48ˢ (4 '78ˢ !Mˢ rˢ !ˢ G78?41ˢ
: 7 Aˢ<7'884ˢ;71ˢ 4 78 '88'1'8ˢ2=5';'8ˢ;3((; 4 48ˢ (:422Aˢ 4@; Aˢ(@7?ˢO(2'('=8ˢ'5ˢ ;14548ˢ 7172=ˢ ?4ˢ67=ˢ '(&

ˢ M!

y2' ˢ O4 =?'8 ˢ 4 ˢ ' 4(1 ˢ ' (ˢ 7 ˢ (5 '67Aˢ 2' 4 (7 (ˢ <= 1(8ˢ '5ˢ 4G78ˢ ;34 L@=ˢ ?48'?4 45 7 !ˢB C ˢ s7Aˢ ;7'5ˢ ' (ˢ 8'5 ˢ ' 5= (4ˢ 14ˢ <(4= ˢ 67(ˢ ('=54ˢ ?=; '88'1 ' ?=; '5(1ˢ 2(:4<(; (4ˢ @=88'178 ! 67 2' 4 (8ˢ (?14'(8ˢ 42 '8ˢ] (22'Aˢ (5 '67' 78ˢ (?' (8ˢ <7'884ˢ ?4;2((!B,Cˢ s7=?ˢ 8 49 (45 ˢ 2' 4 Aˢ (:L2=5';Aˢ 67':78ˢ =:84 ('=548ˢ ;A248 48ˢ '58; '@ Aˢ 4 (5 ˢ %42 wAˢ @(' 4 ˢ (?14'Aˢ 67Aˢ (5 4ˢ =82'7Aˢ 41@= (ˢ '5787ˢ 4 (5 ˢ '5ˢ 4 (ˢ 3(5((5 ˢ 75?4ˢ 4 ' ' (8ˢ (:' ˢ # ˢ % # ˢ ' ˢ 4! ' ' (8ˢ ' 4 (71 ˢ ?'; (ˢ <7' B Cˢ 71ˢ <= 8' (4ˢ 4ˢ ?41=58 ((ˢ ?' 4 8(8ˢ 4884 3(1'(8ˢ (@@(4 4'! ! ˢ 4ˢ 4ˢ ?41=58 (5?(ˢ 5722(ˢ '22('= ˢ 54;ˢ (ˢ 5=8 (ˢ =@'5'=54ˢ ?4ˢ 3(1'(71ˢ (5 '67' (4ˢ ?'8;4?45?71ˢ ;4584= ˢ ?=544ˢ @ =:(& r<'= (ˢ (<<4 (5 7 ! 42 = 71ˢ] (22'^ˢ 4 ˢ ' (5='Aˢ 7'?':78ˢ 2' 4 (8ˢ 5=5ˢ ' 5= (8ˢ <7'884& &! A8(ˢ 2=;7@24 '88'14ˢ 48 (7 !BXCˢ 7'?':78ˢ O':4 5'8ˢ @(' 4 ˢ 5= (8ˢ <7'884 ˢ 5=5ˢ 8=271ˢ 2':4 ˢ (22'1=& 458'8ˢ 87@ (ˢ 141= (78 ˢ 4 ˢ %ˢ ('8 ' ˢ 84?ˢ 4 ˢ ' 4 5(;3 ˢ B-Cˢ 4 ˢ =57145 (ˢ 4 78 (ˢ ;= = 7 (ˢ (ˢ ' 4 5(;3=ˢ ;' ((ˢ ;=5<' 1(5 !U) 9 (ˢ 8@4;'145ˢ '54?' 71ˢ 2@3(:4 O':4 5';ˢ - ˢ 84 (7'5ˢ (ˢ !ˢ 2L55= B C ;7G78ˢ 4941@2(4 ˢ (ˢ 14'@8=ˢ (;;7 ('88'14ˢ 49ˢ =?';4ˢ 2(45?=5'(5=ˢ ?48; '@ 7 (ˢ 8'172! ;71ˢ '5 4 @ 4 ('=54 ˢ 2' 4 '8ˢ .=1(5'8ˢ 87:54; 4 4ˢ =@4 ^ˢ @ 4 '71ˢ 49'8 '1('!

ˢ ! ˢ & ' '(++ ˢ ?
(ˢ : ! ?ˢ 4ˢ <ˢ ˢ 3ˢ '! ˢ m 4 6ˢ ˢ 11! 55! = ˢ ˢ 88ˢ 7

O= 71ˢ ;3((; 4 (1ˢ =1'5(ˢ 4 ˢ = ?'541ˢ 4932:4 ˢ =?49ˢ 4;(578 ˢ 49ˢ 67=ˢ 846745 48ˢ 4 878ˢ ?;8; '@!& 84 75 ˢ 2(34 478ˢ '5ˢ L '(ˢ 4 ˢ (;ˢ 7 '578 ˢ 7 ˢ '5ˢ <'54ˢ %=;(:72(' 24 75 7 J

4' 3 wwˢ #ˢ ˢ ˢ) 7'8ˢ ˢ- ˢ
4((55ˢ '1 ! ('2ˢ # #ˢ - ˢ #O8 ˢ 7'5ˢ ˢ ˢ - #
(3ˢ ˢ #ˢ ˢ ˢ 7' ˢ ˢ- ˢ ˢ -
4'@4ˢ # # * # #ˢ ?= 3=22) :74' ˢ ˢ - #ˢ ˢ
7'5ˢ 1 # # ˢ #ˢ ˢ O ˢ ˢ] 3= ˢ # #ˢ ˢ '(=2!!
(' 3ˢ ˢ # #ˢ - ˢ -) .7'8ˢ ˢ - #ˢ -
'21ˢ ˢ #ˢ # ˢ ˢ) 55ˢ N6 ˢ- ˢ - ˢ
' ˢ # # ˢ ((?3ˢ # # ˢ ˢ O ˢ 2= 3(?3ˢ ˢ - #
;M jI7 ˢ ˢ # ˢ ˢ ˢ- ˢ # $ O ˢ ˢ $ 6 ˢ $ -ˢ ˢ ˢ ˢ
'24(55ˢ ˢ $ˢ ˢ ˢ O8 + #ˢ -ˢ - #ˢ ˢ #
ˢ 3, - ˢ ˢ '<'5ˢ # @yO ˢ ˢ ˢ $ K ˢ- @
! ˢ ˢ 13(;3=22ˢ O ˢ $ ˢ ˢ # $

(;378ˢ B 4ˢ =; !] 45! @! -ZZCˢ =@'5(7 ˢ E48842'5 '78ˢ '5ˢ 5= ! (?ˢ O4 =?= ! ':! =5&!871ˢ 548;'78ˢ ;(2' 41 1ˢ '5ˢ 5=2'8ˢ (? 784:! 4 ˢ (21(8'71ˢ '5ˢ 58; '@ ! O4 =?= ! '5ˢ ?' 4 8(ˢ 45?4 4! 4?ˢ .4 =?= 5((?=ˢ @2(44 ˢ ?=; '88'1'8 ˢ 7 ˢ '5ˢ =7:4& Yˢ @'8 ! (?ˢ (p<4'75<ˢ 5 '6!] (2 ! @! !
B Cˢ Kˢ ˢ @4'54ˢ Lˢ 4;=55=' ˢ =5ˢ 2I 58; '@ '=5ˢ ' 44554 ˢ ;4224ˢ ?Xˢ] ˢ 4 ˢ ;42248ˢ E< # ˢ 24ˢ .34p47 ! 258'47 48ˢ ;(& Fˢ (; 4 48ˢ Lˢ 8=5 ˢ (2 4 48 ˢ 4 ˢ 1414ˢ 45 'y 4145 ˢ ;= =1@78!Qˢ (' Xˢ ?4ˢ '@2=1! ?48ˢ 454?! ?4ˢ ! (7 ˢ (ˢ ('8 ˢ Z- ˢ 2 ˢ @! - !
B,Cˢ (ˢ .42' ! ?48ˢ] (72='8ˢ ! ˢ @! =g ˢ =724 ˢ .X5(7?= ˢ X1=' 4ˢ 87 ˢ 2I ' '54ˢ ?48ˢ b4 48ˢ] 4;6748 ˢ O41! ?4ˢ + I ;(?! !, ˢ @! , M! B Cˢ =8374ˢ ˢ- ! B Cˢ A8(ˢ ?4ˢ 42!] ('N ! '!!
B-Cˢ =?49ˢ =?24'(578ˢ .(V2 ˢ M ˢ <='! ˢ ;=2! ! =5<4 ˢ =24 ! @! 9'2!
B'Cˢ ! 2L5578ˢ '5ˢ 55(2':78ˢ ! 4 ˢ '5ˢ u?';4ˢ O(24'(5=! =?49ˢ 2(45?! ':2'= 3! O(2! =! %N ((2= 2ˢ L8&& ;=7 3! =! ZM ˢ <=2! -ZG 4 ˢ '5ˢ 245;3=ˢ =5 45 = ! =! !) @@422(7 ˢ ;=1175' 4 ˢ - @ # $ ˢ '! 4! 2@(:4 (8!& s 2'(('(ˢ (1='51 ˢ 67'(ˢ 65A '8ˢ 2' 4 (ˢ (:= '8ˢ (171 ˢ 4 ˢ 2'54(ˢ 14?'(ˢ (:= '8ˢ <= 1(1 ˢ 42ˢ '77;71 ˢ 49@ C1' !!

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ˢ B48 Cˢ 75(ˢ B2'54(Cˢ (ˢ 1 (57ˢ ?49 4 (ˢ B (1 'aO M　ˢ ?7=ˢ 8'54!!!!!!ˢ !!!!!!

. # ˢ 48ˢ ˢ 67(7= ˢ 8'54ˢ 4 = 4) 4ˢ ˢ B8; ':' 7 Cˢ ; 55ˢ 67'567X!

6 7ˢ 75(ˢ 48ˢ (ˢ 1 (57ˢ 8'5'8 (O #ˢ ?7=ˢ 4 (;' 4 !

ˢ 48ˢ 67(7= ˢ) sGp4' pp ˢ 67'567Xˢ 5=5ˢ 54 =!

+ ˢ 4 4ˢ @4 ˢ 14?'71ˢ (58' ˢ 1 = 4ˢ 1 (5=) 7=ˢ 0 # ˢ 48ˢ

7ˢ 3(:4 ˢ 67(7= ˢ 8'54ˢ ?7:'=O ˢ 67'567Xˢ 8'1 '2' 4 ˢ =:2'67(8!

! ˢ 75(ˢ @4 ˢ 14?'71ˢ @4 @45?';72('8) wwˢ ?7=ˢ 467(2' 4 !75R =4!

6 #ˢ 48ˢ - ˢ 67(7= ˢ 5=5ˢ 54 ( ) X ˢ - ˢ 3(:4 ˢ 67'567X!

$ ˢ '5ˢ <= 1 (ˢ ; 7;'8ˢ @4 ˢ 14?'71ˢ (1 'O #ˢ 1 = 4ˢ 2(; ('ˢ ;' ;72('8ˢ 7:'ˢ (;;^ˢ 172 75*7 !ˢ

6 ˢ 1= 4ˢ ?'1 '?'ˢ ;' ;7'ˢ (ˢ @(4ˢ ?49 4 (ˢ 7 ˢ '5 422' 'ˢ (7; = ˢ @4 ' '88' 1 78!

s7(7= ˢ '' Tˢ + 1 C ˢ (2 =) (ˢ @(4ˢ ?49 4 (ˢ ':7' ˢ 67'8674ˢ (?(8!

; =ˢ ! # ˢ '5 4 49 (4) (ˢ @(4ˢ 8'5'8 (ˢ (1 '!

0 'o4ˢ 8467' 7 ˢ ?'541ˢ 4 ˢ =1 '5(ˢ ' 4 (71ˢ 4884

!!! !

n M !!!!!!!!

. # !! !!ˢ '578*!!!!!!!!!

X !!!!!!

r . ˢ !!!!

0 6 !!!!! !!!!ˢ E 3' 4 3= 5!

k # ! !!!ˢ rˢ (m!

C !!ˢ 1ˢ 0 =22L& 44!

!!!ˢ 0 (42N

3 # ! = 1 (8!ˢ !Jˢ !!!

X + !!!!!!! !ˢ " ' '8!!!!!!!

] 0 # !!0 4?4 h!!!!!!!!!

ˢ M!!! ˢ (5?=!!!!!!!!!

!ˢ @'5ˢ 2(;m 3= 5

. !!!!!!!!! !ˢ (1 :7;7i!!!

, ! !!ˢ :'48!!!!!!! !!ˢ ' & 44!ˢ *

!!!!!!!] 45 '8 (!!!!! ˢ 7 4!

2X 6 #!!!!!!!!!! ==1ˢ = ˢ 04(3!

- - !ˢ! X1 72(!!!! !!ˢ 8@45!

- &!ˢ "4V!ˢ B C

'@ 3=5 'ˢ 4ˢ =;(2':78ˢ @ (4;4?45 ':78ˢ ;=1 @=8' 'ˢN

(! !! 41 72(!!!! !! 34ˢ 8@45!

' #!!!!!!!!!!

' 6 !!ˢ (@ '<=2'71 !!!ˢ 0=54L87;m24!

= 1 !!!!

^ ! 7 # ˢ 27 'ˢ (2(178ˢ .' 4 J 44?!

B Cˢ 9@2';(7 ˢ '5ˢ =?';4ˢ 2(;5?=5'(5=ˢ ('5'8ˢ 2' 4 '8ˢ / ˢ 4 ˢ x ˢ B~Cˢ 448ˢ '5ˢ =?';4ˢ 2(45?=5'(5= ˢ 4 ˢ 4; 4!

B Cˢ 67'ˢ 2' 4 (8ˢ (?14'(8ˢ ˢ 5714 =ˢ <7'884ˢ 8; ':75ˢ =5578ˢ ! ˢ 4 ˢ 2'5'78ˢ !- ˢ ;!ˢ ~ ˢ 4 ˢ ^ C ˢ ; ! - !ˢ =5<4ˢ

67Aˢ ?4ˢ 2' 4 '8ˢ 0':4 5';'8ˢ ?'4 (ˢ 877ˢ '5ˢ =2; =147'8ˢ @!L' ˢ t;!

! ! ! ! AL

8+ +F #- +F# 1 + - -8SF8 # -JH8 8 8-H# 8 /2 H8+ JF- J F+ ##F#- 22 F- 8#
2## SF# 8- 8X F 1 8 E#J8 8 <8 J -F E8 H J +8 # # # E8+#I --8 8 2 # #
E#J8 <8 # F- #G + --8 I#E8 F+

2#

H E J S G G X,2Y 0+

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4(7(4(= 7(BsC '('= @

+ O (7 1 67'567X 875 '@ 3=5 ' (4;45 '= ':78 @ ;72 ?7:'= 4 2' 4 '8 @ ''584 '8 2 ;=1@=8' '
@=8 67(1 (? 2'5 784 ('5=4 5= ' '(5 @4 454 75 ! ' 4 (" ;=58=5(5 48 # s % E " 4
875 (2'5 7(O':4 5';(@45' 78 (2'451 7 (2':" 5= ('!B C = #2 4 s O':4 5" 8; ':75 4
3 s 4 67(1 '8 2' 4 (1 7 @= 4 (4;45 '= ':78 787 @((1 I '(578 '5 "=6(:72(571 (?1'84 '
'@84 (545 5722(4578 '5 4 2' 4 (8 (5 '67(8 O':4 5';(8 5714 (5?(1 4884 <(4 7 !)K ' 4 (1 7
3(1'(1 571; (2(34 478 4 78 @= 48 (41 ':7458 5=1'5" # 7 67=? @4 @4 (1 8; ':'
~ # e ?448 '5 4 78 '= 4 =?';4 2L55' 4 '5 =15':78 =;':7U O':4 5';'8 8; '@ '8 (5 4 8(8&
;7271 2- 71 (5 '5 %=;(:72(''8 67(1 '5 =?';':78 4 1(5'<48 4 ;=1@=5' 7 4 ?5=:78 8'1@ ';'&
:78 ?41 45 '8 42 42 # 7 # # 42 # 67(8 2' 4 (8 49@ '1' 4=?;1 1=?=
67= 42 @= '78 - 49@ '1' 2' 4 (8 8'*1@2';48 -

&8 + J #- # SF8 SF# SFT &#< H G#- 8 - ## F- -F<+ 8 + #- SF# F22# # # 2# GF
8+ #J 8X +8 8 <2F+8- SF + % SF 1F#--8 #SF#--# -
E 8# - $2# #F- 8 ## F- 8 #SF#--# # !J+#< F+8- F I J8 8- F +82#SF8+8
$2F+# -<8J# # GH # 8XH# 8 F+ # E#J8 I8 F- +28# SF# G8 #- #- 8X + ,dY
8 # 2# E8 SF P]+ 8F- # SF# M #- +818+ F H 8 2# 822F 8# + 8F+ #SFF q JFUF-
-8 - #G + F+

.4;458 48 4 ;3((;478 =?49 =V408'8 '5 67= 49 (=41 (O':4 5';71 ;7G78 7; = '8 5=S
145 8'; 87:8; '@ 7 (24 =)

G \ 'aaaaaaaaa 'aaaaaaaD # ++ ++ # +# O JJ
1 !

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2(34 478 67'?41 4 49 4= O('8'78 8; ':75 <7'884 '1@2';'(?41 45 (O':4 5= 7 5 N (
4 = 4 1(5'<y8 = (?1' 75 2' 4 (8 67(1 4' &'=; (@@422(5 4 O 67 &'5 5722@ %=;(:72('=
42 =?';4 49 (7 2' 4 (84? (5 71 7 (;;45 78! 2(34 478 '567' 5=5 ?(49@=8' '=541

B C O(5; 2' 4 (1 O('8'78 (@@422(2'<4 (1' E (4I8 5 '6! 7:: Z - @! , ! (; 7 '578 1:= 4 =544
7 @(4 49 =?';4 2L55' 4 49 '@8(2' 4 (67(8 57867(1 '5 7=8 '8 ;=?'4':78 '5 45' ' ! %'?4 =24 =1 @! '!
B,C O(5; O('8'78 (@@422("w (; 7 '578 5=! '5 8'1@2 ;''78 ;=5 45'75 =1548 5 '67'!
B C =24 =1 @! ' 4 3((; 4 48 - '5 =?';4 (2''1=4584 ?4 67= '?4 =24 =1 @! 9' !
B C (5? V4 4 = ' '5(22L 34 8(14! V(8 5= 784? '5 '83 :4<= 4 =7 m5=V24? 4 =< 34 ('5! %=;(:! @! ,!
B-C =?! O(?! '5 ((2= = L8;=7 3! '5 4 =?';48 2(45?=5'(5=8!

! t ! / ! !

" @$!# E#X#--8 8--8 8 + +#- +8J 8 SF#E8# ? ## F- # ; J F2 +#
I J#- #- #F- +#G# 8 # E#J # <2 8 +8J8 8 # #2 8 # 2#FE 8--8 # SF# SF @$ # 8 22#-
G <8 # F- +8U#J#8 E 8--8 --8+ #< 8 2# GF # 8+ #J 2#T ^ 8S#28 \X ## # 2 # 20
<H 8 GH ## =8SF8 # F22 ; J F2 +# I82 E#J8 # I8 2 F+ #-# # I J# F- +8J8 # +# F- SF4
(# #- < -# ! $ +#J# EI8 F# # + EFJ 1F8+8 # 8+ F22# # 8X F 2# 8+ -8E <+
JJ8 F #SF8 @ +T 8 # SFT <2F+8- SF k % SF# F- #SF# # 8+ #
-J+# 8 E#- I J# F- 2# 8+ #- F 8 F+

; 22 J8F- SF#E8 # " + #J < 2KI 8 8X 8 FJ + <F-JF2# E8 # -8< 2JH+ #
J +F J E8 #W 8G#W &F 2# #8 -#- #S < @ . # 8+ - # 8+ #J - --8+F
8--8 # j 8 FJ + <+wE#J # <F-JF2# <+w 8+J -F UF G# 2# 8+ - / 8 V # 8+ #- -J+# #
-d2# - <+ #-JF8 # F F <+ 2 8+ -F - # F8+8 F+ #+ + 8SF#E8 +8 H J 8 F- # FE#
-SF8 F22 ; 8 8+F FJ +# 8 -SF8 F22 E#J8 I82 ; J F2 +# SF 1#E8- +8# IW J J#0
2# +8 F+ # H#8E#F 118++# 8- 8 # - 2F+ SI 8- - 2F F22 #SF +F 8- # #
<+ F+ ; 8+F 8 #F G8 #F F-F# 8 + E# # # F- <2 8 +T<FG : F#- F SF FE#I#
SF#- -J+#<-# 2# 8+ - / 8 -F - # F# < --8 I#J8I8+- F <+ 2 8+ f

2## -J+# F , G G < A _Y CfZ 8--8 2# 8+ - 2## 8+ +F SF 1F#--8 #SF8- " +wJ -8X +#-
828 8- F+$2# #F- @ EF<2#J# 8++ +8 #E --8+F ^ JSF8 8 # ! -F 2# 8+ - # 8+ #Jw =8SF8
C 2# 8+ - #SF#--# W " +wJ +F -8E 2K F -J+# # 8X #SF +F 8- # ##- $2# #F- # 2 J
2 FE . J . K < B A M #SF8 # " +wJ# # F2#--8 8 $H #J8 E+ F # G

8+ E F- F 8+F 2# 8+ +F E 8# +F # # 8 U E# -8E #SF#--# - #F- "+wJ#W
1F#--8 8- F+ O A $H #J8- SF# JF E EI8 8+F # " +wJ# 2# 8+ - # EFX8+F S##W
M <FE " +wJ - F #H# I#E8 F+ 8 1F8+F 8 <+# - SF#E8+ #22 - SF# F- 8- J # +
M $HJ8 #J8- F F F+ -8E <+ G+8-- 8 < +#- F 0F - F I8+F 8 # # Ejja
F E8 F 8+F # E#J # ! 2 -#F- # <+wJ2 + <8+8 E8 -J+#< 8+ E#- < B 8 FJ +8- 80
8E#J # # # <8+#- 8G+8G## #] % < . C . 8 SF#ESF#E !J 2#G8+ -F<8+
2# 8+#- E 8#- E#--#E8 ! 2 -#F- J -8 #F+# 8 # " +wJ# #22 - 1F#--8 <+#
<2F+8- SF SF E 8 !F#E - --8+F# 8 P 8--82# G#F- -F FJ +# 8 J 1#+# I#

I8 # SF8 F22# 8 EF+ #+ 1 F2 F+ 8 8 # SFW I8+ -F # 8+ 1 F2 - # 0
E E <8+-F E8 @ ! J+#< +F ?+#X - E8 2# 8+ +F F 8+ +#G# 8 8 1 + JSF8 8- ## =8SF8
- # F # 8X-J+# 8+8 E 8 8E#J # +F <F- +818+ ^ E #<- 8+ E # J $2# ## I8+ ^ E <F-
-# G 2 +8 8+ # FG #- E8 <+# ! J+# 8 E# +#G# 8 8 + # 2# 8+ +#W #SF# 8 8 E +EF# #
&#-SF#-# # 8 E8 F #- SF# 2# 8+#- ! +# #J#- # -J+U< # -F

22FE F F 8+8 2#J8 SF #SF# F # 8+ #J +F JF2 +8- ?I8+# # 8 $ +# - J -F2
8 # 2# 8+#- - +#- E8J2 + E#- I82 F 8+ I82 1 + I82 # # F- 2# 8+ +F -7
E#-J8E F- ^ =8SF8 # 2# 8+ +F < 8- 8 E8J2 + E F -F - # F F- <+ 2# ^ =8SF8 F22 -F 0
- # F# < --8 < #-JF8 --8+ F- SF# #) --8+ # ; 8 8+F 8- # ##- I82 G8 #- $2# 8+ #JW -J+#<0
#- + E# # # F- J 1#+ 8 F+ @ ! 2#E 8- 8 #+ U J # #SF# #- JFUF- F22F+ +GF 8 F

B C 04 =?= ! !- 4?! E 48842'5 ! @! MM!) (78(5'(8 '567' ; (1' L@842" 84 ((1' 2'?' '58; 72@ (1' <7'884 ;3((;&
4 ' : 78 ' 5= '8 # ! - ; ! (8?41' 8 - # 141= (" '= 3 G8=8 ! !9' @! 4 * U48842'5 ! '5 5= !
(? 04 =?= - @! , !

F22F ʻI8- #G#F ʻ+8<8+#+#ʻ< 8- ʻ8ʻSF#ʻ+8 ʻ 2ySF +ʻJ + 8 ##ʻ #SF# 8ʻ #2# +8ʻ ##F+ʻ#Eʻ F ʻ8#/#J#ʻFʻSF -ʻ#22F- + +8ʻE8 F8+ ʻI8+ -ʻ #SF# 8-ʻ ʻ- 2F ʻ# J8+ -ʻ+8EJ2#ʻ8ʻ -JF# -ʻ I8+F ʻ8ʻ-#ʻSF Eʻ I8+ʻE#X8+#ʻ ʻ##-ʻ#<-#-ʻSF +F ʻG+ # ʻJ < #ʻ8# ʻ# I##-ʻ+#E8 F+

/2 H8+ 8F-ʻE8ʻJH + J 8+# F-ʻ - Kʻ-J+# 8 -ʻ# SF#ʻ&F 2EF ʻ/# #--#F ʻ+8#ʻ #SF +# eʻ #0ʻ 8+ +F ʻF #JF ʻ{ 2F 8 ʻH F#--8ʻ<8 8-ʻ -8ʻ F2 -ʻ8ʻ 8F22ʻ + +8ʻJ <2 -ʻ # ʻ8ʻ $7 ʻ1 ʻ#ʻ8ʻ F2 -ʻ$2##2 - <H +F ʻE#J -ʻ#ʻSF# F-ʻJH + J 8+8-ʻE#J #ʻ # $ʻ - ʻ#ʻ8ʻ + +F+ʻJH + J 8+8-ʻ G Wʻ # -J+#< #ʻ28GJ F+ʻ,<ʻA Y@ SF#ʻE8ʻ F2#-ʻ2#G 8#-ʻ#ʻSF# F-ʻ J ʻ<F 2#Jʻ #SF# F-ʻ# -JF2< ʻ8+ ʻ<2 +ʻH 8 ʻ 2 8 F-ʻ#ʻ <8+8ʻJF#ʻ # F2F-ʻMʻ # ʻ #ʻ ʻ 1 # ʻ ʻM "# Bʻ8ʻ FJ +8-ʻ 8 8E#J # #ʻ <8+#-ʻMʻ * " ʻ #]ʻ ʻ %) Bʻ 8Xʻ SF# F-ʻ J - ʻ F22 -ʻ F2 -ʻ2#G 8 -ʻ J #-ʻ<F 2#J#-ʻ# -J+#< -ʻ EHFJʻ -8+I ## ʻ 2F-w#-ʻ8ʻ<+ #2# 8+ʻ 2#G 8ʻ# J#- ʻ1F#--8ʻ #22 ʻ!I 8-##ʻ"8 8 2 G# ʻE8ʻSFʻ#<-8-J+# #@Mʻ 8F +8 8 ʻ FUF-ʻ<F 0ʻ Mʻ2YJWʻ F2Wʻ Eʻ 8ʻF-SF8ʻ-#+<#-ʻ 8+JF28Wʻ-FJJ8--# 8 ʻE8EFJF Q,2Y

; 22 J8F-ʻ!<8J# 8ʻ8XH# 8ʻ2# 8+ +F ʻ - ʻ8Xʻ2# +ʻ1 # 7 # ʻSF#ʻ <FEʻ # # ʻ 2 #Wʻ 8G# + ʻ$ 8-8 -ʻ<+wJ8< ʻ8ʻI +#ʻ + # F+ʻG8 8+ ʻJ#+Jʻw+wʻJ F #-ʻ### ʻE8-J+#<-#ʻ F0ʻ UF-ʻ2# +#ʻEF ʻ8X ʻ8X8 <2 +#ʻʻ; 22 J8ʻ 8 + ʻ#ʻ"+ #Jʻ<ʻ ʻ 8+##ʻ 8 ##ʻ/# 0ʻ 8+ 8F-ʻ<ʻAA ʻ F #ʻ # F2F ʻ-#Jʻ # 8ʻ# 8+<+8 F#ʻ 8X< #ʻ Mʻ J#<#ʻ2# 8+ʻ/ +JH8+ #@ JF-ʻ 2# +#ʻ # @ 8 <F-ʻ FSF I +ʻ1#2#ʻ 8--Wʻ, 8G8ʻ 2 #wYʻ $8+- ʻ/ +JH8+ F-ʻ Mʻ#8ʻ$H#2 - <HF-ʻ@ /8 #F-ʻ / +- #EHʻ 2<H 8 ʻ<+# ʻ 8 +w +F ʻ"+wJ +F ʻ # +F ʻ8ʻ Mʻ 7 ʻ ʻ -7 ʻJ < -### Qʻ ʻI8+ ʻ SF + I#-ʻ2# +F ʻ#- F ʻ 6# ʻ ʻʻ @ʻ - ʻ $+wJ8< ʻ$ 8 +F mʻ # -8+#< #U ʻ 8# 1 J2ʻ,#2#F-ʻ 2#22#ʻ#F 8+< 2 I8+#ʻ ʻKACʻFʻ 2# # # E#J I#,AYʻ 8ʻSF + I#-ʻ8X8 <2 +#ʻ<+wE#J ʻF < 8ʻ+8J8 # + ʻ< +I#ʻ1 J#8 Eʻ8X#-# 8 ʻ-#ʻ 8ʻ J ʻ+82#SF#-ʻH J 8 F-ʻ8X< -#y-ʻ#ʻF F ʻ +GF 8 F ʻJ 12 +#ʻ-# F-ʻ<+ JF2ʻEF #ʻ#Eʻ J 1#+ ʻ SF Eʻ- #-ʻU ʻE8 -+ F ʻ8--8ʻJ 1#E ʻ I 8 ʻ 82#J ʻ - ʻ#ʻ #SFʻ # 8+ # ʻ Eʻ2# 8 + +F ʻ828 8 ʻ8X<+# 8 Eʻ F-F+< ʻ1F#--8ʻ8ʻI8 8+8-ʻ # 8+ -ʻFʻ-J+# #ʻ P +wF-ʻ <+w 8+ʻJH + J 8+8-ʻIF2G +8-ʻ 2# -ʻ - ʻE#J -ʻH F#--8ʻSF# F-ʻ2c 822F ʻ) ʻ $# ʻ# 1 # ʻ<8 84ʻ -8ʻH F#--8ʻ 8- F+ʻ, Yʻ 0

:F Eʻ-#2#ʻ 8+Wʻ#- 8ʻ ʻ1 + ʻ<+# wI E8128X8+# ʻSF#E# E81ʻ 8 ʻ2# 8+ +F ʻI#J#--# FE# 8-ʻ #+81F+ʻ SF#ʻ#<- +F ʻ2# GF +F ʻJ -F-ʻ 2# #ʻ 8-ʻ< +F <8+ʻ<8+<8 E8+# ,BYʻ 9F Wʻ2# + -ʻ 2#SF ʻ + -0ʻ J #-ʻ-wJF2#-ʻ+8<8+ -ʻ 8- 8ʻ$2# # ʻ8ʻ G#-ʻ- + 8-ʻ8ʻ 1+F-J +F ʻ GF+# ʻ8ʻ2# 8ʻI 2F+ # ʻ ʻ$2# #ʻ< +# 8+ʻ 8 + ʻ 8 ʻSF## 822#G8 ʻ# I8 F-ʻ8- ,.Yʻ 82Gwʻ SF#2 #ʻ8ʻ 82 8ʻA # ʻ ʻ&#, ʻ# 8+ʻ-8ʻE#118+8 ʻ 8- c 8ʻ w- +8ʻ 8 ʻ 8ʻF #F-ʻU ʻ#E# #-ʻI8- #G#F ʻ8X0ʻ ʻ X ʻ G2#J ʻ-8+ 8ʻ-J+#< ʻ ʻ E1+#E ʻ <#-J <ʻ J I ʻ # E#-1 + 8 -8ʻ F ʻJ#+J# 8+ʻ 0_ ʻ8X + ʻ 8- 8ʻ] E8 ʻ SFWʻ I 2E8ʻE#I8+-ʻ-F ʻʻ-8+ 8ʻH E#8+ ,KYʻ G2 - X #J#ʻ -8+ #-ʻSF ʻ I +#Wʻ1F8+# ʻJ F # 8-ʻ E8 #ʻ 28J ʻE8 - +

$8+#8+8ʻ #SFWʻ -8+#<# 8-ʻ E 8Wʻ8ʻ2 #JWʻSF -ʻ!J 2#G8+ʻ#++# ʻJ Fʻ+8- # F8+8ʻ8ʻ8X0

B Cʻ L548'ʻ (h8 (8'8ʻ @!ʻ ,ʻ4 @'8 !ʻ-Z*ʻ @!ʻ MZʻ 4?' !ʻ 4 (!ʻ Fʻ ʻ@7 4ʻ(5?ʻ'2278 '=78ʻ@4?' 44ʻ=<ʻ Z ʻL4(8 Fʻ]':: =5ʻ 4;2!ʻ(5?ʻ (22ʻ !ʻ ʻ =ʻ@!ʻ ,-ʻ5= !ʻ , !)& =5<4ʻ <'7'!ʻ?4ʻ* ;(?!ʻ?U8ʻ @8@ !ʻ ! -ʻ@! ,!
B Cʻ =24 =1!ʻ@!ʻ 9 'ʻ7:ʻ?4ʻ = ;34 5ʻ 84 (4ʻ?'884 7'
B Cʻ 5'6!ʻO':!ʻ =5?! !Z !ʻ;ʻ ʻ@ʻ !ʻ B ʻ =24 =1!ʻ@!ʻ 9
B!-Cʻ 2'5!ʻO'8 !ʻ ! ʻ;!ʻ ! ʻ@!ʻ M,!ʻ !ʻ ! !ʻ 27 (;3ʻ'5ʻ 51 (ʻ@!Z ʻ49ʻ '8=54!ʻ ';ʻ?4ʻ E' !ʻ !, ! !ʻ
B'Cʻ (1?45I8ʻ.41 ('58ʻ@!ʻ Mʻ4ʻ !ʻ =5?!ʻ -Z!

, ! ! / ! !

<2#J +8 8 I# $8+## 8<#- 2 SF # ! +<8E 8 + U -{+#<-#--8 18+ F+ SF SF8 F G+ <H H
< < + G < # J -J+#< 8 # SF E Ew 8 <2 <<8 - # ##J# F- 8+ -F2 +818+8 8
$2# # -8 I#E#--8 E8J2 + ,2Y $8+#8+8 # 8 2# 8+w # < < + 8X + w SF +F# 8 # 8+8 - # - 80
-# EF- + 8+ - 8 8+ E F- F <2 8 E8 - + " F#2 E# #F- # <8+8 E8 $ < + 8 8 + 0
#- #SF +F $8+#8+8 2F #w #22w -# SFw 1F8+8 +8+F 28- #F E#-J#<2# # -J+#< Z
SF - 2## J2# 2[! 8 H E # 1#2# +# F8+8 SF I#- 8 +F # -F 8 < +8 -F<8+- # 8
1F#--8 -8<HF- --8 I8+ ,AY $8+#8+8 $+ <2#8 #w JH# SF +F 8 # # <#- 2 [Ew SF 0
I#- +*G8 8- --8+ SF -E # JH# 2# + - EJ ! #E8+F JF+-F- # # F- J # F- # + #
/ 82#J8 +8G 8 8G# ! +8<8+ - SF - 8+ F22# F- -8 I#E#--8 11#+ # { ! FGF- # F-
SF# @M ! {+#<-#--8 F22 E#I# JH #2#F -8< #+ F E 8G +8 < --F F- Q
: Fw JF # -# SF#- 11#+ +8 < 8+# I82 8G +8 SFU8 + 1F8+# 2# 8+ +F 1 + w <+# wIw
SFw # f JF F22 -# # + 8 2# GF #SF# + 8 F22 I X SFw 2<H 8 F 8X<+#
#SF# + p -@< 8 F22 2# 8+ +F # #SF# + ##- SFw + +F # < +# 8+
8X<+# 8+8 E#G -JF F+ 8 #G + +8 1 8 + JF+ #- -# wSF8 J 82#G# H #J 0
+F # 8+ #w E 2 #- # # # 8 HF # G8 8+#- E#-<8 -# 8 +818+8 E
<8+w <+8 #F 8X#- # -8+I +8 SF 2 8 2# GF # 8+ #J E#- # SF E
2# 8+ $ I8+- 8 # 8- + # F +#F-SF8 ; 8 +8- # # #SF# F- - 28 2# 8+ $ < 8+8
<+ # 8+ # F 8 2# 8+ $ +8U#J#8 8- 8 # < - # + EFJ 2# GF # # I J# F-
#<-#- # #- 2# 8+ -F - # F8+8 - 28 <+ $! #J <+ ! 3 < - 2F- -J+# 8 ** * 1 <+
<#J < <#-J <F- * K <+ <#- 2 m$ H ++8 -J+# 8 E I82 8 # J# 2#E
I J8 SF -J+# 8 1 8 8 F J# J + I8+ # # #SF# +8- -J+# 8
% # <+ - # 8+8 % #" # <+ -8+I F $#E#8 8 GH822F- # 8 <H#
8 + #-#F- # 8 <H##Z $#- #- , Y : F# #2# F- # SF# I8 8+8- 2# 8+ - 2# 8+4 $
<+ F J# --8 ,BY #FJ JF* <28+#SF8 SF -# 8+ FGF- F 1F#--8 -J+#1## ! F8 #F- J E8+ SF 2 0
SF8 F+ E -J+# 8 EF <F +8 < 8 $ <+ @ # EF<2#J# 82 G# E#J# F+66 ! #<-
I FGF- <-8 # E ? cSF# +# 2 <#E8 +#F- E#J# F+ -F2 <-J -J+8 F-
1+ G 8 8G#- G+ +#w I B - # % , * $ # 8+ # ! #SF#--# <FE ++#-#F
8 " +F 8+F J L 2# 8+8 #F- ! J F+F- # J 228J # 8 $F -JH# < G# AAH2 -J+# #
J - +8 $ # F +F <8+ $ <8+ < E8 8 -J+# # 8J # F- $ #" $ JF+ # #2 -
2# 8+ 8 I#E8 8+- F -FF I# E#J8 ?@ J + # 8+ #J# 28- H J <+ -J+#<-#
8 2# -## #2# F 2# # I# ,dY 2 E#F- # SF# -8 I8 F- #--# F I#E#--8 ; J F2 +#F+ # 8+0
#JF # SF 2# 8+ $ <8 # F- E\-#E8+ F+ 8 <2F+# ; J F2 P 22#J # J#<#8 # 2# 8+ #-
8X +8 8 # # 2# GF # 8+ #J 0-8E # J#<8+8 é F %# JF+ # 8+ #J8 # @ %# ' " I8+ #-
8+ #J8 # N %# + + # 8+ #J8 # N % J <F # 8+ #J8 $ 8
22FE 8 # EF 8X#- # 2# 8+ - 8 " # 2# GF # 8+ #J -w<8 < # <+ #-JF8 F
<+ 2 8+ #ESF8 # <2F+# F- I J# F- # F -# I X #SF # J#<#8 - " I82 # I8 # F+ -F

B C 2'5! ! ! @ ! M ! ?4 1 ? ;45?7 1 ?4 %(p; '5''8 L: '22'5'8!
B , C =84@3! 5 '6! 7?! ! ! B C @4 ! ! @!Z !
B C s7'5 '2! ! 'A 7 ;7 1 ? ;= $ 4;75?((45' (2' 4 (28 ('=@=84' (5 48 1 ('8 (?'75 !Q
B - C =2; = 1 ! @! L'!

! ʼ ! / ! !

#- #-ʼ 2# 8+#-ʼ # ʼ / J F2 +##-ʼ # IJ #+#ʼ < 8 ʼ -F - # FJ #2 ʼ F ʼ <+ ʼ 2 8+ ʼ S #ʼ 2F 8ʼ #SF#--#0ʼ
F ʼ 82 +F ʼ -J+# 8 E#ʼ # +8 ʼ # 8+ʼ #SF8-ʼ 2 -ʼ # ʼ F-Fʼ 1F#--8 ʼ < 8 ʼ 8Xʼ 2F >79 ˋ# ʼ # ʼ
SF ʼ ʼ <+Hʼ "ʼ -J+# # F+ʼ F ʼ ʼ + ʼ # ʼ # ʼ % 4 aʼ : F# #2# F-ʼ # SF# ʼ
SF 8E ʼ 2# 8+ʼ -J+# #ʼ 2# +ʼ 8 F # +#ʼ Mʼ ʼ O ʼ # SF# ʼ ʼ 2# 8+ ʼ F+ Qʼ #SFF-ʼ !J+#< +ʼ
1#8ʼ # # F-ʼ +F ʼ SF#ʼ <<8 E#J#-ʼ 2 J ʼ < # F+# ʼ I 2F #ʼ J ; 28+##ʼ X# #ʼ M 2## ʼ # SF# ʼ
Mʼ ʼ 2##ʼ O ʼ 2##ʼ ʼ -J+# F Qʼ 8+8 # F-ʼ F+F-ʼ # SF# @Mʼ ; 82ʼ <+# +8-ʼ # ʼ "ʼ
Mʼ EF ʼ ʼ <#J8ʼ 1# X8+ ʼ #F-ʼ <+ U 8 ʼ <+ # E8ʼ "ʼ +ʼ "ʼ - Q@ ʼ <H# ʼ
FJ##ʼ #- +#-ʼ M ? P ##WQʼ -J+# # F+ʼ <+ ʼ " ##ˋ ʼ +##W ʼ +#F-ʼ ; #J +# F- ʼ E8ʼ + 2# G+ <H# ʼ ; 80ʼ
8+F ʼ # SF# ʼ Mʼ <FEʼ #SF8-ʼ ʼ < #ʼ - 2# F ʼ F ʼ <+ ʼ G+ ʼ " # ʼ $ Sʼ <+ ʼ 28G8ʼ Sʼ ʼ
Mʼ <+ ʼ G #Q@ - -ʼ 2# 8+ -ʼ <+ #-JF8ʼ -J+#< -ʼ 1F#--8 ʼ < 8 ʼ 8Xʼ I8 F- #--# ʼ 8E#J8 ʼ E#J8ʼ ; #+G#2## ʼ
@Mʼ <-8ʼ ʼ# ʼ + 8 ʼ J# J FSF8ʼ O $ @8Bʼ ,AY

81 E ʼ 8- ʼ # ʼ #- ʼ ; #+G#2##ʼ I8+-F ʼ I Xʼ -J+#< ʼ <+ ʼ : F#+# 2#ʼ +8ʼ "+ 8J +F ʼ SF#
X # ʼ -J+# 8 ʼ ʼ ʼ F ʼ < 8 ʼ 8Xʼ J <# 8ʼ ##ʼ I G82##ʼ FJ 8 ʼ 8 ʼ <+ ʼ # ʼ : ʼ +8< 8 ʼ
9 ʼ SF#ʼ F?+ # F-ʼ #1 8+ F- ʼ # ʼ <#- 2 ʼ 1# ʼ Eʼ !8G#8 F ʼ -J+#< ʼ ʼ KB ʼ 8F ʼ
SF8 ʼ 2# 8+ #ʼ <<822 ʼ 2# GF ʼ # 8+ #J ʼ Mʼ # ʼ 8 ʼ E8ʼ 2F J #- qʼ <<822 ʼ AX # ʼ
2 #8 -8 Q, Yʼ E8ʼ # ʼ # 8+ 8 -#-ʼ #E8 ʼ 8 ʼ 8- ʼ Jʼ : F8+ #ʼ -#I8ʼ 9J+ #ʼ ʼ# ʼ
ʼ I G82# ʼ FJ-8 ʼ 8 ʼ : F#+# #ʼ # ʼ ʼ #- +# ,BYʼ !#Jʼ !8E8-ʼ <#-J < 2#-ʼ ! ʼ #8+ #ʼ E8ʼ 2F)ʼ
J0 #- ʼ # ʼ I8 J+8ʼ $+ I# J# 2#ʼ ʼ <<822 F+ʼ @ 7 # # ʼ !#Jʼ 8 # ʼ SF8 ʼ # 8+ #ʼ #00ʼ
ʼ P #+~ F+G8 -8 ʼ <<822 0ʼ !#G8 8+ F-ʼ Eʼ F ʼ K_0B ʼ # ʼ I ʼ H+ cJ#ʼ 8E# # 8ʼ <<822 ʼ
/ ʼ # ʼ I8 8+8ʼ 8E# # 8ʼ X ʼ E8ʼ < 8 ʼ 2# 8+ -ʼ 9ʼ 8 ʼ : ʼ 8SF8ʼ Jʼ $ ʼ 1o#--8ʼ ʼ I8 8+F+ ʼ
8+ +F ʼ + 2# G+ <H# ʼ <8 # F-ʼ 2#8 - ʼ 8 ʼ 2# 8+ -ʼ ʼ 8 ʼ "ʼ # I#J8 ʼ -F - # F*ʼ -d2# -ʼ 8--8 ʼ +8ʼ
#SF#--# ʼ SF#ʼ # 8+ʼ # -ʼ ʼ F+8 ʼ FGF- #ʼ +8 8ʼ E8-F8I# ʼ Jʼ <+ # E8ʼ ʼ ʼ #F#-ʼ # ʼ # 8+0ʼ
ʼ # + EFJ F-ʼ 8- ʼ SF#ʼ ʼ 8ʼ SF# F ʼ - 8JF2F ʼ <8E8 ʼ # #ʼ < - #--8ʼ E#J8 E#ʼ -F

$ ++ ʼ SF Eʼ E8ʼ 2# 8+#-ʼ ʼ 8 ʼ "ʼ E#J F ʼ 8- ʼ SF8ʼ J I8 # ʼ 2# 8+#-ʼ ʼ Jʼ & ʼ SF ʼ - ^<8ʼ q# ʼ ; J 2#2 0ʼ
+##-ʼ # 8+ #J#-ʼ F F ʼ -F - # FF F+ qʼ SF#ʼ : F# #2# F-ʼ --8+##ʼ #Eʼ +*-ʼ 1F#--8ʼ #SF#--# #-ʼ # #- ʼ
Mʼ ʼ I8 F- #-ʼ F+ #-ʼ - + - ʼ 8 ʼ J828 +# F-ʼ 8 <2U- ʼ 28GF F+ʼ 28X E8+ʼ 8 ʼ -- #+ q, .Yʼ ʼ -J+#<0ʼ
8ʼ < -#2 ʼ <8+ 8ʼ # 8+# ʼ <FEʼ "+F 8+F ʼ 28G# F+ʼ) ʼ 8 ʼ < F2 ʼ < - 8 ʼ) 1 4kC) ʼ
; 8 8+8-ʼ # #ʼ 1+8SF8 8+ʼ -J+# 8 ʼ) ʼ <+ ʼ) ʼ ʼ + # 8ʼ 2 FE##ʼ <8+ +#-ʼ E8ʼ #I# 8ʼ
" 22#-ʼ E E ʼ 28G# F+ʼ Mʼ ʼ) ʼ 1 + -ʼ 8-<F 2#J ʼ E8EFJ ʼ -# Qʼ <+ ʼ # ʼ SF ʼ ,_Y@ G82F-ʼ $ 2# # 0ʼ
F-ʼ # ʼ <#- 2 ʼ Eʼ $ ʼ $ -JF ʼ <2F+ ʼ 8- # ʼ EEFJ# ? ʼ SF# F-ʼ F ʼ -8ʼ E#J# ʼ Eʼ -J+# 8 EF ʼ
) ʼ <+ ʼ SF #- ʼ 8### ʼ <+-8 8+ʼ I8 F- ʼ 8<#G+ ʼ # ʼ # ʼ #SF ʼ ; #+G#2##ʼ E#JSʼ

ʼ SF#ʼ # ʼ # 8+# +#ʼ $ 2 # ʼ -8Fʼ ; #J ʼ # 2# H8J ʼ -8+I F+ ʼ)" ʼ -8 <8+ʼ 28G# ʼ F ʼ
$ JF2 ʼ # ʼ I ʼ -<F # ʼ 2 J 8ʼ) BN aʼ 8 ʼ # ʼ I8 F- #--# ʼ 1+ G 8 dʼ "+F 8+#ʼ H 0ʼ
8 F+ʼ) N11aʼ 8 ʼ # ʼ E#J8ʼ 8E#J8 ʼ ; #+G#2##ʼ ʼ 8 E8 ʼ F #SF8ʼ + H G+ < # ʼ -8+I F+ ʼ !J+#0

B Cʼ] =5= !ʼ 348(7 !ʼ 5 26!ʼ . =1 !ʼ ! !
Bʼ ,Cʼ 54'?!ʼ !Z ʼ !ʼ , ʼ 4 ʼ '<X ('5ʼ !ʼ , ʼ $
B Cʼ G22= 4ʼ @'8 !ʼ 4?!ʼ 884 !ʼ @ ʼ gg ʼ 4 ʼ =24 =1 !ʼ @!ʼ ;99!
B Cʼ 74 =5!ʼ '5ʼ ' :4 ʼ ;!ʼ M!ʼ (; ' !ʼ 55(2!ʼ ! !ʼ ' 4 (ʼ] ʼ 5=5ʼ (5 4ʼ 849 71 ʼ (ʼ . =1 (ʼ ;=5?' (ʼ 8 4;7271 ʼ (ʼ . =1 (5'Tʼ +
787 @((ʼ <7' ʼ 48 4ʼ 7 (;3= ʼ '5ʼ s718 !ʼ . =1 !ʼ (@7?ʼ = '8 ʼ !ʼ g ʼ @!ʼ Z !
B-Cʼ s7'5 '2!ʼ ! ʼ ;!ʼ !ʼ B 'C ʼ @7?ʼ] 7 4 !ʼ @!ʼ , , ʼ 4 1 @ ʼ Z& Tʼ Z J ʼ -Z '2!
¥Yʼ <FEʼ] 7 4 !ʼ @!ʼ !ʼ B ?Cʼ =2' '(5!ʼ ʼ 4@ ʼ M!ʼ BMCʼ] 7 4 ʼ @!ʼ - ʼ !ʼ -!0

! ʾ ! $! !

F+ʾ 8 # ʾ) ʾ ʾ " 8 +G ʾ I ʾ . C ʾ 8 ʾ) ʾ # ʾ U 8#E ʾ ; ʾ I ʾ A ʾ !) ʾ ! : +# 8 F+ʾ 0
#SF# F- ʾ F + SF8ʾ E ʾ Eʾ 2# # F ʾ ! #Jʾ # ʾ I8 F- #-ʾ -J+#< # # F-@ Mʾ ! 8JF+# 8 ʾ) ʾ " 0
+# # Q , 2Y@M $# ʾ) ʾ # J2# Qʾ ,AY@M X# #ʾ) ʾ # I#J # Q, Y) Mʾ <2#--# F-ʾ) ʾ @
##--# F- Q,BYʾ #E8 ʾ 8 # ʾ # ʾ I8+-Fʾ -8SF8 #ʾ -J+# # F+ʾ 1) ʾ ʾ # 8+# #ʾ <+ <8ʾ 1# 8 ^ # ʾ F ʾ < 2 ʾ
1# ʾ J UF J # 8 ʾ #- ʾ <+ #-JF8ʾ -J+#< ʾ 1F#--8ʾ 2# 8+#-ʾ m 8 ʾ r ʾ F-SF8ʾ Eʾ 8 8 ʾ FGF- #^ -8E
F-SF + ʾ ʾ $ +# F-ʾ H+#- # #-ʾ - -JF2# SF + #ʾ I82 SF# #ʾ ʾ SF# F-? - 2#-ʾ # 8+ #ʾ +F ʾ + #-
F SF ʾ E8 822 # ? 2# GF 8ʾ # aʾ J G # # 8 ʾ +8J8<8+F @ ; 8 F- -ʾ E#J8- ʾ ʾ #-# J F 8ʾ <
<822 ʾ SF# ʾ #8-ʾ 8X-J+#< #ʾ ʾ F2 F+ ʾ 1#E8# 8+8 F+ ʾ #SF#--# F ʾ 8+ ʾ ; #+G#2# ʾ E#J82 ʾ
JE#J8F ʾ 8 +8U#J#8 EF+ ʾ 8X#- # # ʾ 8 ʾ ; 82#F-ʾ GF- ʾ SF# 8ʾ # #ʾ $## <J+#F ʾ 12 +F# ʾ
F ʾ < 8 ʾ 8Xʾ " 822# ʾ ; #+G#2# ʾ I8+-F 000Mʾ : F Eʾ <+#F-ʾ U+ aʾ - 8 8# ʾ Eʾ 2# + ʾ I8- Qʾ , . Y 8 8 E #ʾ
E#J8 -ʾ) ʾ #SF ʾ +8ʾ -J+# #ʾ <+ ʾ SF

2# #ʾ I#ʾ 2# 8+ ʾ > ʾ ʾ 8--8ʾ # 8+ #J ʾ 8 ʾ # T+ -ʾ 8UF-ʾ 2 J ʾ 8 # ʾ # ʾ I J# F-ʾ 8X 8+#-ʾ # ʾ
SF# F-ʾ -J+# # F+ ʾ -F - # F8+8ʾ - 2# -ʾ - * 8 ʾ ʾ F ʾ - ʾ 8 ʾ ʾ <+ ʾ ! X F- , KYʾ SF# #E 8 # + ʾ
E#J8 EF ʾ 8- ʾ E8ʾ I8 F- # +# F-ʾ # #-ʾ 8ʾ - 8JF2F ʾ FGF-E ʾ -8Eʾ ʾ < - 8 ʾ &# 8E8-ʾ " +

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&# J F-ʾ # ʾ <#- 2 ʾ Eʾ <8+ +8 ʾ + EF ʾ SF -ʾ <+-8 # # F+ʾ 8UF-ʾ 2# + ʾ ʾ ʾ M # # ʾ
ʾ Mʾ > ʾ 2# 8+ ʾ 8ʾ FGF- #ʾ % " ʾ * # ʾ -8Eʾ <+ ʾ 8 ʾ ʾ 8 ʾ ! ʾ -J+# 8 Q

/ 8 +ʾ SF#E8+ ʾ # ʾ I8 F- # +# F-ʾ # I8F#<#ʾ 2 <#E# F- ʾ F ʾ # ʾ 28G# F-ʾ G+ +##-ʾ 8 ʾ # ʾ J 2F ʾ &###2#0
ʾ ,CYʾ ʾ 1 8 EF ʾ 8- ʾ 8 # ʾ #Eʾ <8++ + ʾ # IJ #+#ʾ 8 ʾ +#F-ʾ ; #J +# F-ʾ # ʾ # # # ʾ 2# +#ʾ E8
+ H G+ <H# ʾ # SF# ʾ #G#E#F ʾ / #GF2F ʾ #J8+ #-ʾ #JF ,LYʾ F SF ʾ # ʾ <2F+# #-ʾ 2# +#-ʾ SF -
-J+#<-# ʾ 2# 8+ ʾ ʾ F-F+ ʾ 1F#--8 ,2 Yʾ Mʾ # 8+ ʾ ʾ # SF# ʾ : F# #2# F- ʾ J +8+8ʾ < F# F- ʾ -#ʾ ʾ SF-80
-#--J F- Q, 22Yʾ ; --###-ʾ J F 8 ʾ 8--8ʾ <# # 8 ʾ 1 8 F+ ʾ 2# 8+ ʾ ʾ ʾ F ʾ ! ʾ I8+F # 8 ʾ] ʾ
I 28+8 ʾ 8 ʾ I J8-ʾ SFaʾ # ʾ G8 8 #I ʾ 2##-SF8ʾ J -# F- ʾ +8 # 8 ʾ ʾ F#--8ʾ 8 E8 ʾ 2# 8+ ʾ 2#+ ʾ # ʾ +8J ʾ
! #Jʾ ʾ +8J F-ʾ ʾ 8+ ʾ & FX ʾ -8Eʾ ʾ ! #Jʾ # ʾ ##-ʾ # ʾ SF# F-ʾ " ʾ -J+# # F+ ʾ F ʾ 1+FG#- ʾ +8G#- ʾ 28G#- ʾ
+8J F-ʾ 8+E ʾ ʾ 1+FX ʾ +8X ʾ 28X ʾ -8Eʾ ; # " - ʾ # 8 ʾ - ʾ # #IF-ʾ " ʾ 8+ ʾ @ ; ++hʾ E#-8+ 8ʾ
! J+# # ʾ 8Xʾ Jʾ 8 ʾ -ʾ J+FX ʾ 8Xʾ) ʾ 8 ʾ W 1+FX ʾ SF +F ʾ I JF ʾ E#I8+-# -ʾ # ʾ J -# F-ʾ 2#SF#-ʾ J+FJ#-ʾ 8 ʾ 1+FG#-ʾ
<2 8ʾ E8J2 + F+ , AYʾ - ʾ 8 # ʾ 8 ʾ ʾ #SF# F-ʾ -J+# 8 F+ʾ <+ ʾ #Xʾ 8 ʾ -8 8X ʾ F ʾ < 8 ʾ 8Xʾ
$+#-J# ,2 Yʾ $+ F- ʾ SF#ʾ <8+ 8ʾ + U ʾ 12 +F# ʾ # SF# ʾ Mʾ X ʾ 28X ʾ <+ ʾ ʾ - E4< aʾ ! #J ʾ
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$ +# F-ʾ # #-ʾ -J+#< ʾ 1F#--8 ʾ 2#<<#-ʾ SF8ʾ - +# F-ʾ F ʾ 8-

B Cʾ : '?ʾ @!ʾ , - & !ʾ B , Cʾ : '?ʾ @!ʾ , & !ʾ b Cʾ : '?ʾ @!ʾ , & !
B Cʾ : '?!ʾ @! !ʾ 4 1ʾ '5ʾ 45= (@ : '=ʾ 7; '" (@7?ʾ = '8!ʾ @!Z ʾ 4 ʾ '5ʾ (2(5=ʾ 2(@'?4ʾ ' : '?!
B-Cʾ ! '74'?!ʾ ! Mʾ %!ʾ , !
Bʾ 'Cʾ =24 = =!ʾ @!ʾ ' ʾ t ; !ʾ ?ʾ =8 ; 5?55 ʾ ' 4 1ʾ = 1548ʾ %=; (: 72(' ʾ 4 ʾ =?' ; 48ʾ '5ʾ %=; ' : 78ʾ 0' : 4 5'8!ʾ
NCaʾ '=1!ʾ ! ,ʾ !ʾ] (1!ʾ B?Cʾ @=?ʾ] 5 4 7 1 ʾ 4 ʾ] =54 '7 =ʾ 348(7 !ʾ 5 '6!ʾ . =1!ʾ ! !
BMCʾ ' ; ; !ʾ @'8 !ʾ ('5'2!ʾ ! ʾ @!ʾ !ʾ 74 =5!ʾ '5ʾ 7 Nʾ ; !ʾ M !
B Cʾ ('78ʾ %' ; = ʾ '5' '=ʾ 2' : !ʾ 4ʾ : = !ʾ B Cʾ s7'5 '2!ʾ ! ʾ ; !
B Cʾ %(Pʾ ! ?ʾ (@7?ʾ = '8ʾ !ʾ ʾ @!ʾ Z !ʾ ʾ B Cʾ '8; '(5!ʾ ! ?ʾ ' : !
B Cʾ @7?ʾ '4 '71ʾ %(24 '(5 ʾ '5ʾ = 1 145 ʾ (?ʾ !Zʾ & 54'?ʾ @!ʾ , -!

!ˢ !/ ! ! .

=5ˢ4 =ˢ(ˢ ('5'8ˢ 1=?71ˢ '81 1ˢ2' 4 (8ˢ ˢ4ˢ 8ˢ8;5:4''?" @ =ˢ ˢ O':4 5" ?4 ' (884ˢ ?';45?" 875 ˢ 84?ˢ (:ˢ (5 '67'88'1 (ˢ8; ':45?" 4ˢ4575;'(5?" 14 :=?=ˢ65(Nˢ '5 4 ˢ 45 48ˢ X2 ';(8ˢ (:ˢ '5' '=*'5 (2Y' ˢ4ˢ (ˢ67(ˢ O':4 '=8ˢ (4224 4ˢ54;ˢ '@8(ˢ .42' '=ˢ 3 '8 '(5(ˢ@= 7' ˢ54;ˢ2'5 7(ˢ ('5(ˢ67(ˢ (ˢ8A;72= 67'5 =ˢ ;=1 175' 4ˢ78" 875 ˢ54;ˢ '54 = 71ˢ ('54ˢ8; ':45?" (8ˢ67(1 (?ˢ2'5 7A*O':4 5';Aˢ '5?=241 ˢ67(8" 84 ('5ˢ 4ˢ;(@ ' ((ˢ 4?' 4 4ˢ (;ˢ (?= 71ˢ24 ':78ˢ ?4:422((1ˢ87:G';4 4ˢ 4ˢ ˢ 4??4 4ˢ ;=S 5(" 875 ˢ7ˢ87@ (ˢ'5?';(' B Cˢ 4=?41ˢ '@8=ˢ 1=?=ˢ67=ˢ 5 2=8ˢ '5ˢ O':4 5'(5ˢ 45'45 48ˢ4ˢ ' 2= 71ˢ 1= 48ˢ '5 =?7;4 4ˢ ;=5(5'48ˢ (?ˢ O':45'';71ˢ 'ˢ45?" 1= 41ˢ4ˢ2'5 7(1ˢ@(72('1ˢ 4?4 4 75 !

A 4 4(ˢ5=1'5(ˢ O':4 5';(ˢ A674ˢ (;ˢ 3(2?(';(ˢ 67@4ˢ 2': 71ˢ4ˢ@(48ˢ2': "49@ '175 ˢ49@ '& 175ˢ4 '(1ˢ(:= 48ˢ 42ˢ (1=8ˢ(7ˢ<=2'(ˢ(7ˢ8L2 (8ˢ4=?41ˢ 1=?=ˢ67=ˢ z25'4 78ˢ5= (' ˢ54;ˢ7571ˢ '5 45' " = :71ˢ?4ˢ2'3''8ˢ '5ˢ 45 (47;3=ˢ67=?ˢ 5=5ˢ@=88'ˢ4 '(1ˢ?4ˢ 2' 4 '8ˢ 6- ˢ ˢ49@2';('!B,Cˢ ';ˢ ;941G?" ('(!ˢ. ˢ ':4 ˢ. $ ˢO'8 = '(8ˢ67Aˢ =9ˢ49 (ˢ 4=ˢ84587ˢ '5ˢ 4 78 '88'1=ˢ ';;3" 24@ 458'8ˢ =45'(4ˢ O':4 5';=ˢ4?' =ˢ'5ˢ '(?4ˢ@! ˢ49@ '1'ˢ L2 (1 4ˢ L2 (8Nˢ77?4ˢ 4; 4ˢ=:84 dˢ '(34 478ˢ ' 4 (8ˢ(:ˢ(5 '67'8ˢ O':4 5'8ˢ?'; (8ˢ<7'884ˢ. sˢ'!4!ˢ L2 (8!ˢB Cˢ 7ˢ(7 41ˢ (:= 71ˢ 5=1'5(ˢ@ =2' 4 (71ˢ5=1'5':78ˢ 787 @(45 7ˢ(:ˢ O':4 5'8ˢ 49 (ˢ175?71ˢ@:8' '8ˢ 4ˢ =ˢ8A;72'8ˢ (:ˢ '45 (2271ˢ 45 '71ˢ5= ' (ˢ84;278'8ˢ4ˢ67" 5'7'67(1ˢ'5ˢ (:72'8ˢ2' 7X'8ˢ84 ':4 4ˢ(8874 "4 (5 ~ˢ Yˢ 2' 4 (8ˢ O':4 5';Aˢ ;=5 45' 47ˢ5714 =ˢ2 ˢ;71ˢ (?'54'8ˢ 5'8" 67A?(5ˢ49 (4ˢ(5 '67'88'1 (ˢ (?' '=ˢ 7'?';(ˢ67(ˢ2' 4 (71ˢ8;'45 '(ˢA674ˢ(;ˢ .42' '=ˢ ˢ(:ˢ'1 141= (:'2'ˢ(ˢ 454 ('=54ˢ75(ˢ(?ˢ(2S 4 (1ˢ (?' (ˢ4ˢ84 ((ˢ;=24:(27ˢ~ˢ %=9ˢ67'?4 (ˢ ('5(ˢM $ #ˢ' (ˢ?';' 7ˢ(ˢ;= ';;ˢ(:= '8ˢ7ˢ5=S dˢ 4 '78ˢ'5ˢ%' '2'71Nˢ $ #ˢ45'1ˢ?';' (ˢ # #ˢ # ˢ% #ˢ) ˢ6- ˢ v# ˢ 4ˢ67(ˢ@ '1A " ;=?';48ˢ4<<';'4:(5 7 !B Cˢ ˢ67A5(1ˢ(<<'5' (8ˢ'5 4ˢ 6;41ˢ ('5((ˢ2':4ˢ4ˢO':4 5';(1ˢ. ˢ1

;#Xˢ F22 ˢSFw- # #ˢ+8 F-ˢ -+F-#-ˢ +#+#ˢ< 8- ˢSFWˢ ˢI +##-ˢE#1v#JF2 # F-ˢJ#+JF+ -8< ˢ <# #Oˢ F ˢJ 8 #-ˢ8ˢ 8 8 +#-ˢ 11F-J F+ˢ #ˢSF# F-ˢJF ˢ #H#2ˢ F2 + ˢ 8+ -ˢJ U8J F+ -ˢ<+ 18++#0- 28ˢ +8-ˢ#<- ˢ< - F2 +8ˢ I#E8 F+ˢ Fˢ #ˢ # J8+ ˢ8ˢ J#<# 8ˢ ˢE81# #8 E ˢJ I8 + F-ˢ ˢ #-ˢ -F ˢ 8+Gˢ SF#ˢ I82ˢ #H#ˢ I82ˢ 2##-ˢ<8+-F E8+8ˢ I82## ˢ H + J 8+F ˢ G0 # +F ˢ +#G# 8 ˢ< -T8ˢ 8Xˢ H J 8FF ˢ E#J #-ˢ E81# #+#^ˢ SF8ˢ 8 # ˢ --8+8+8ˢ FE8 ˢ 1 + -ˢ+8J #2* 8 -ˢ8--8ˢ J -ˢ SFWˢ #SF# F-ˢ G + Wˢ <<822 F+ˢJF ˢ< F8+# ˢ#? F +#ˢ2 <-Fˢ 8# < +#-ˢ#ˢ # 8+ # ˢ wSF8ˢ Jˢ E 8#Wˢ#ˢ +#8 8ˢ @ 22FEˢ - 2F ˢ#ˢ # ˢ8+ ˢ I# ˢ# E#J +8ˢSF ˢ<8+ˢ-<#-- -ˢ #SF# #-ˢ 8 8 + -ˢJ F 8ˢ# J8E8 8-ˢ I J#-ˢ 82 #JWˢ #SF#--# Wˢ +#G# 8 ˢ8ˢ 8 -F ˢ8 U8J F+#-ˢ- 2 8+ ˢI8+#-# #2#ˢ F-ˢ8X<2#J +8ˢ< --# F-ˢ X + ˢ EF # # #-ˢ8 # ˢ 28 ˢ< -# F+ ˢ8--8ˢ + # +8+ˢI J8 ˢ -7 ˢ ˢ# 8 + #2#ˢ# ˢ # 8+ #ˢ <+ ˢ2# 8+ +F ˢ828 8 # ˢF-FI< +#ˢ 8ˢ 8 E8 ˢ8--8ˢJFUF-ˢ 8 # #ˢ ˢ - ˢ #-ˢ FJ# F-ˢ Fˢ I J#-ˢ

Zsˢ Jˢ<+ # E8ˢ o1 # ˢ2# 8+ +F ˢSFWˢ F Jˢ8X ˢ ˢ8--8 ˢ<+ ˢ #SF#--# #-ˢ JJ#<#8 Ew

B Cˢ <=24 =1!ˢ@! 9 'ˢ4ˢ846!
U,Nˢ Fˢ ˢ5ˢL' (ˢ@(8ˢ754ˢ49@ 488'=5ˢ?(58ˢ =L84ˢ=7ˢ'2ˢ@(24ˢ?48ˢ2' 48ˢ67" 54ˢ@7'884ˢ8ˢ49@2'674ˢ?(58ˢ24ˢ8458ˢ?4ˢ;48ˢ (:248ˢ Fˢ?4ˢ@'4 4ˢ4ˢ?4ˢ:='8ˢ4ˢ2I=5ˢ5ˢLˢ 41(674ˢ@(8ˢ75ˢ 1=ˢ67" ?=5542I'?44ˢ5" ?4ˢ =52479ˢ 5"?I4;= e4Uˢ 5" ?4ˢ@(@'4 ˢ 5" Kˢ?4ˢ@(;341'5!Qˢ =5<4ˢ @78ˢ 454?'; '5= !ˢ] " ˢ #]ˢ ˢ % ˢ ! ˢ@!ˢ- -!
B Cˢ:!ˢ@!, !ˢ ';ˢ'I7'Z4ˢ48ˢ<=2'71ˢ(:= '8ˢ 4ˢ<=2'51ˢ2': '!ˢ |2 8ˢ48ˢ@('5(ˢ2':5ˢ4ˢ (:72(ˢ2R 54(!ˢ ` ˢ; ˢ %(22(2;478ˢ@4 @4 (1ˢ8; ':' \(=?- ˢ5722(ˢ(7; = '2(4ˢ852<72 78!ˢ] (1!ˢ@!ˢMˢ4ˢ !ˢ '(34 478ˢ# ˢ1 ˢ@!ˢ, M!
B Cˢ 8'?= !ˢ ' !ˢ ! Zˢ;!ˢ ˢ<=2!ˢ ˢ4ˢ;!ˢ ,ˢ<=2!ˢ ˢ4?ˢ ('8ˢ - !ˢ O=2'5'78ˢ '5ˢ =@4 4ˢ ?4* ; '@ 7 (ˢ t;!ˢ '567' ˢ =;41ˢ$ 7ˢ' (ˢ?';" (9=5';4ˢ (ˢ<(=ˢ Fˢ(;ˢ2' 4 Aˢ'@8Aˢ :==m&8 (<<V4 ˢ67=?ˢ<(" (8U4 ;72=8ˢ'5 4 @ 4 4 '8!Qˢ ;!ˢ !ˢ =5<4ˢ (1:4;'" ':2'= 3!ˢ 1@4 ˢ ˢ ˢ@!ˢ Zˢ;71ˢ (:'22=5!ˢ 4ˢ 4ˢ '@2=1!ˢ@!ˢ ˢ4ˢ =5<(¥;=5!ˢ (2q= !ˢ ! ˢ;!ˢ,!

!K !' ! / ! !

2' 4 (8' (145'67(8?(1' 49 ' '884' x0&'pwTp w8' ?'; (8' 4 ' (:= 71' 5=1'5':78' '58' 5' (8' '?674' =;':78' 2=5 4' ?' 4 8'8' ('] A;'8' 4 ' .=1(5'8' 67(7 (' = ' =' 454: '8' (5 '67' ('8' =: =27 (' ' 5= (7 ' 1'5'14' ?7:' (5?71' 48

. # ' <'2'78' .4 '8' =;3=?'' =' :5 4?=5'' ' 67' ' 7254 (78' '5' @ A2'=' 4(5 44584' :(7?' 2=5 4' (' '14 ';=' =;;7:(' ' 4 ' ;7G78' 71 7271 ' 2(@'?4' 84@72;3 (24' 87@4 ' (@=8' = ' 58; '@ '=5~' 3(1'(' ?'8& '5 74:(7 ' =:'' ' (5571' ;' ;' 4 ' !B C' 2'78' 2(@'8' 84@72;3 (2'8G' 58; '@ '=54' :(1'(' 8;(2@ 78' 141= (7 '5' =41(4' 0':4 5';=' ;7' ' 7278' @x $ # ' A2'71'](7 (571!B,C

'2(5*;' 58; '@ '=541' 4?' (1' 3(:4178' '5' ; '8' ;(?X1'A' .4 '(4' 0':4 5';A' ! ' 5 '6!' @!' 2 ' 846_45 '' 8;341(4' 67(1' 4 =' 49' 2@3(:4 '' 3*(1'' = ?'54' 87@ (' 49@u8' = ' 2' 4 '8' ('5'8' 75'& ;7'674' 3(1'A' ?'2' 45 4 ' (@@=8' '8' 4=?4'5' = ?'54' 49@=5=!' ! &

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5'54' 8467' 7 '@(72=' ?' 4 8(1' 4884' 14(1' 49@=8' '=541' (:' 4?' (' '5' ; '8 ;(?4 ('A' 67A' 8';' 84' 2'(:4)

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(;4' 4= 71' 67' 3(5;' 49@=8' '=541' 4?'?4 4 ' 2';4(' (?' '@871' 2(@'?41' @ =7 ' '5' ; '8' ;(?41'A' '58;72@ 71 ' (@@422(4' 75?4' @(45 '(7; = 41' '8 71' @4 @4 (1' 8; '@8'8841 ' @ =' 1 ' ' 4 ' ' @ =' 1) (1674 ' 4 (' 24; '=54' @=8'2(' 6 'A5(1' 8' ' '5 4 @ 4 ('=' '?4(178!) =' 8';' 4 :(' 49S @=2'=) UW 7:' 3=;' 7172(' 84@72;3 (24' 87: 4 ' 48 ' =5(<<4 =9 ' @4?71!!!!!!!!!!!

X< -# # ' # ' J #-' J E8 #W 8- @ !F ' H J' '3 ' ' 18+ X' - ' <8E# F- OB

=' @ =' ' 4?'?'' K' 7172=' 84@72;3 (24 Q' 4 ' =;41' 72 '1(1' $ ' =1'8'!

=;72' ?7:'=' =9' < ' 8(971' 8' 5'<';(' ' 7 ' M @1 ' (97'5' <('?';71 B C' ' 41' 6 -' 4 ' 6 - ' '5' 58; '@ '=54 ' =9' 48 ' ' 67A' (2'67(5?=' - '8; ':' 7 ' '!' 4!' 717278' 84@72;: (2'8' 7 ' K' ' ' ' ' \- ' ' 7 B' '5' 941@2(4' =V4584' %=;(:72('' I '(5' ' '5' 1('54' @!' , !) % R;4 (' $ ' @45' 78' =1'8' ' 7 @= 4' (' 2'5 7(' 0':4 5';(' (2'45((' 9 (' 67'?41' '5' 2'5 7(' '8 (' =9' ' '1= ' 67A' 8; ':' 7 ' 4 '(1' $ 'N (' 5722(' =9' $ ' 67A' ('241' 49@ '1d ' '5' 2'5 7(' 0':4 5';(' '5 45' 7 !

0'5;' 878@';= ' 42' 2(@'?41' 5=5' 4884' (;;7 (4' ?42'54(71 ' 42' 58; '@ '=541 ' '@8(1' 4884' z7@& @=8' ' '((' 4 ' 4;45 '= '8' A '' '5 45 71!' 0(5;' 878@';'=541' ;=5<' 1d ' (7; = '8' @ (8?'; '' ;(?41';'' (884 '= ' 4(5?41' '5; '@ '=541' 24 '' 4 '(1' 1= 4'] A;= 71' 4 4 71 ' ?'; =' # % ' (' 8'5'8 (' (?' ?49 4 (1 ' 4 ' 8';' 375;' 845871' 4??4 4 ' K' 5=2'' 454: '8' =:?7;4 4' 42'67'(8' =5(5'' <4 =;'8' ('2'8' @4?71!Q' 41' 24 '' @=884' 4 '(' 67((' 4 ' 67'5 (' 24; '=54 ' (2'=8' 845878' 4??45 4 ' 7) K' 2=5 (' Kf 67'4 4' G(;;(' 87@ (' 2' 78' 2(;78' 37G78;4 ' 87:' 3=;' 2'4 = 2L@3';= ' ?'24; 78' 8(; = 71 Q' t ;' H

(1' 4 =' '5' = (' (5 '67' (4' '5(7?' 71' 48 ' 722(1' 7567(1' 49 ' '884' 58; '@ '=541 ' 67A' 7 =674' 1=?=' 24; (' 475?41' @454' 845871' 4??(' 8' 4' (' ?49 4 (8' 4' (' 8'5'8 (' 24 (7 N' 4 3A;' G(; ((' 24;& ['=' ?7@249 ' 172=' (('8' 878@';'=541' @ = =;(' ' 8'172' (;' (?' 4(1' ?48; '@ '=5'8' ;(?41';A' @(41' @4 45'(178 ' '5' 67(' ?7A' (2'A' 24; '=548' 49:':45 7 ' 87 871' 541@4' 4 ' ?4= 871' H 1=' 4 ' 67'5 (' 67A ' @(' 4 ' 0':4 5';(' 475?41' @454' 845871' 7:'674' X X2d ' H

s7=?ˢ8ʳˢ 48ˢ3<<2;ˢ (1ˢ'5(7?' (ˢ8'ˢ@ =ˢ 45'55(ˢ(? (' 45?(ˢ8;' 4ˢ 42'1ˢ ;7ˢ8(971ˢ'8 7?ˢ78674ˢ(?&ˢ 37;ˢ @45' 78ˢ' 5= 71ˢ 42ˢ(ˢ?=; '8ˢ O':4 5'(4ˢ?4 42'; 7 (ˢ;=5 4 (@ 7ʳˢ @= '78ˢ3(:4 ʳˢ '?4(7 ˢ 67(1ˢ '5 4ˢ@ 4 '=8'88'1(ˢ(5 '67' ('8ˢ22':4 5';(4ˢ 4@=545?75ʳˢ~

7; =ˢ@ (8<(78ˢ ;(?41';78ˢ 58; '@ '=54'5ˢ'8 (1ˢ8;(2@ (1ˢ<7'884ˢ'567' ˢ(55=ˢ (4 (Nˢ 7' (''8ˢ,M-!ˢ Kˢ 34ˢ?4(3ˢ=<ˢ =5(5ˢ'8ˢ49@ 4882Lˢ8('?ˢ =ˢ3(4ˢ3(@@454?ˢ 34ˢL4(ˢ:4<= 4ˢ 34ˢ:(24ˢ=<ˢ] (:3 (ˢ(5?ˢ Kˢ 34 4<= 4ˢ'5ˢ 34ˢL4(ˢ,M-ˢ ;=5846745 2Lˢ 34ˢ8 =54ˢ 178ˢ3(4ˢ :445ˢ '58; ':4?ˢ 8ˢL4(8ˢ (=ˢ Kˢ 3=7 3ˢ <=1ˢ'8ˢ3(?ˢ 49 7 4ˢ 34ˢ'5; '@ '=5ˢ'8ˢ 8 '22ˢ@4 <4; 2Lˢ24 ':24!QB2C

ˢ1'5'14ˢ8467ʳˢ 7ˢ8;(2@ (1ˢ<7'884ˢ4=ˢ (55=ˢ67'(ˢ4=ˢ (55=ˢ=:''ˢ =5(578!) s7'?ˢ8':ʳˢ =275ˢ'5 4 &ˢ @75; '=548ˢ 67(8ˢ '5 4ˢ %4 :(ˢ?'8 '5 7=~ˢ =8ˢ(7 4(1ˢ ('5= 71ˢT (45''ˢ67ʳˢ8'5 72(ˢ =;(:72(ˢ 8'5 72'8ˢ@75; '8ˢ?'8 '5 74:(5 ˢ2'722(ˢ<4 4ˢ 4 := 71ˢ?'8 '5; '=ˢ(ˢ = (''8ˢ<(; (ˢ48 ˢ7 674ˢ(?ˢ 41@= (ˢ (=2ʳˢ (5''67''ˢ@ =;7 (5 4ˢ 245'5=ˢ @734 = 71ˢ?'8 '5; '=548ˢ 42ˢ87:?'8 '5; '=548ˢ 48 ' 7' !ˢ ?ˢ (7 41ˢ<(; 71ˢ48 ˢ;7 (5 ':78ˢ 245'5=ˢ4ˢ (72=ˢE (54< '?=ˢ 1= 4ˢ@'(54ˢ?' 4 8=ˢ(ˢ 4 4 4ˢ 1= 4ˢ ('&ˢ 5= 71!B,Cˢ 5 4 @75; '=45'1ˢ5=5ˢ(?ˢ" #$ˢ?'8 '5 745?(ˢ 48 ' 7p(ˢ48 ˢ84?ˢ'5ˢ'5<4 '= 4ˢ@(4ˢ; ' 4Vˢ " $ ˢ@=8'2(ˢ ' 72((ˢ'5ˢ 14?'(ˢ@(4ˢ?7=ˢ@75; (ˢ'5ˢ87@4 '= ''@7; 71ˢ847ˢ8;5871ˢ<'5' 7 (ˢ?4&ˢ 8' 5(:(!ˢ 2'67(5?=ˢ '(ˢ@75; (ˢ'5ˢ 1=?7'5ˢ '(5 72ʳˢ@=8' (ˢ'?ˢ4<2R;'4:(5 ˢ7ˢ'5ˢ@27 ':78ˢ =?';':78ˢ =?24'(5'8ˢ 4ˢ = =5'(5'8ˢ 4ˢ '5ˢ 67':78?(1ˢ =V458':78ˢ 4 =ˢ '@84ˢ8(G@4ˢ 5= (''ˢ 7 4'8ˢ '@8'8ˢ ('5= 71ˢ 41@= ':78ˢ(;;7 ((ˢ'8 (ˢ y := 71ˢ?'8 '5; '=ˢ5=5ˢ<'4:(ˢ(:ˢ=15':78ˢ 8'67'?41ˢ 7 78S 78ˢ 7ˢ49ˢ4G78ˢ;3' = (@3=ˢ=:84 (''ˢ 7; 5'78ˢKˢ ˢ " $ ˢ" #$ BN aˢ 5ˢ 4 78 '88'1=ˢ ˢ =?';4ˢ !ˢ '2'(5ʳˢO':4 5458'8ˢ;7G78ˢ 141 14 4ˢ 454?'; '5' B Cˢ5722(ˢ49 (ˢ@75; 7('=ˢ5722(ˢ 4 :=&ˢ 71ˢ?'8 '5; '=!ˢ ?41ˢ ?';45?71ˢ?4ˢ 8(2 4 '=ˢ (2'8:7 4584ˢ8; '@ =ˢ8;4;72=ˢ '' (=!B-Cˢ 5ˢ %' '2'=ˢ %(';(5=ˢ @27 '1=4ˢ @(' 2 4ˢ 5722(1ˢ 493':45Hˢ@75; 7('=541ˢ4ˢ 4(ˢ671ˢ'5ˢ(2''8ˢ '5 45' 7 ˢ 1(57ˢ 4;45 '= 4ˢ(?G4; (ˢ48 !B C

72278ˢ49 (ˢ'5ˢ = =ˢ= :4ˢ =?49ˢO':4 5458'8ˢ'5ˢ67=ˢ8'5 72(ˢ 4 :(ˢ@75; =ˢ?' '8(ˢ24 75<7 !ˢ 9 (ˢ (7 41ˢ =?49ˢO':4 5';78ˢ <, # ˢ 88;72ʳˢ ''1''ˢ! % # ˢ # ˢ 4G78?41ˢ8 4;72'ˢ =?49ˢ ˢ ˢ8(8;72ʳˢ ''' '!ˢ =?49ˢ ˢ ˢ8(4;72ʳˢ '95'ˢ =?49ˢ?'; 78ˢ #ˢ ˢ8(8;72ʳˢ 91'!ˢ =?49ˢ .ˢ " - # ˢ O(24'(578ˢ884;72ʳˢ9''1'!

s7=?ˢ 8ʳˢ (884<(7ˢ5=5ˢ(ʳˢG(1ˢ?4ˢ =?';4ˢ 84?ˢ?4ˢ'58; '@ '=54ˢ8(4;72ʳˢ 4 'ʳˢ49473 '8ˢ4ˢ67'?41ˢ 1= 4ˢ 1# % ˢ .48@=5?4=ˢ@ '1=ˢ'8 75<ˢ8; ':45?ʳˢ 1= 4 (ˢ @5 4ˢ(5 4ˢ8 7275ˢ 4 '71ˢ'1=ˢ (5 4ˢ 41@= (ˢ 249(5? ʳˢ7:'674ˢ 4' (71ˢ?48384!BZCˢ 4;75?=ˢw72'(1ˢ 4 := 71ˢ?'8 '5; '=541ˢ49ˢ @75; =ˢ8'1@2';4ˢ'5ˢ 58; '@ '=5':78ˢ(5 '67'88' ('8ˢ =78 =@34?=5ˢ'5 45' 'Nˢ 5=5ˢ'5ˢ'8 (ˢ?4ˢ 4 ':78 =Jˢ 2=5'8ˢ 4?' (ˢ(ˢ = 4 =ˢB Cˢ 5=5ˢ'5ˢ (@'?4ˢ ' 4=ˢ 4?' =ˢ (ˢ 3'83722=ˢ '5ˢ 5 '67' (':78ˢ 8'(';'8 BMCˢ 5=5ˢ'5ˢ'22(ˢ67(1ˢ4?'?'ˢ (ˢ (8 '4ˢB Cˢ54;ˢ'5ˢ'8 '8ˢ(ˢ1'224ˢ(55'~ˢ(5 4ˢ 3 '8 71ˢ'56'8'8ˢ67(8ˢ4?' (8ˢ '5 45'178ˢ'5ˢ @4 4ˢ+ ˢ ˢ` ! ˢ ˢ #ˢ ! -ˢNˢ4ˢ67(1 '8ˢ'8 (1ˢ8; ':45?ʳˢ14 3=?71ˢ'5 4ˢ 42 (8ˢ] (22=8ˢ4!9 ' '884ˢ(884 (7; =ˢ4 7?' (8ˢ @4 '8ˢM ˢ - ˢ ˢO 4ˢCˢ5 71ˢ (145ˢ8@4&

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NCaˢ 7 (= ʳˢ = !ˢ 348(7 !ˢ ! ˢ;=2!ˢ M) ˢ4ˢ 41!ˢ?4ˢ2I ;(?ˢ?48ˢ 58; !ˢ ! -ˢ@!ˢ MZ) !
B ʳˢ = '4ˢ ;:A=2!ˢ] A;(ˢ;!ˢ, !ˢ BMCˢ 41ˢ 7 (= ʳˢ = !ˢ 348(7 !ˢ 58; !ˢ !ˢ ˢ@!ˢ, !
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49 ' '884 67= 41@= 4 (1'5'8 7; = 14 ';(1 '8 (1 5(('=54 (49 (?= 71 < (145 '8 ;=224&
' ! 8" <'?48 =41(" 3(:45?(48 ''8; '@ '=541 ?'; (1 - 8;(2@ (1 <7'884 '5 8(!9=!

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B,C =7 4(7 (X ?4 '@2='5! ! @! 2! B U %'5?';('=5 =< 34 54! 0'8 =< ; ' @!-, !

67=?ˢ 87@ (ˢ =5(5ʺ 71727 1ˢ 4 4; 7 (ˢ 48 ˢ '7ˢ 1=5 4ˢ (22(5=ˢ (55=ˢ (5 4ˢ 67(1ˢ U2'7 1ˢ] (7 (57 1ˢ 48 71ˢ 48 ˢ (;ˢ @ ='5?4ˢ (55=ˢ 3 '8 Hˢ ,M-!

s7=?ˢ %# ˢ ('54 &K 4ˢ (1'5'8ˢ '8 '78ˢG(; (=ˢ 7; = 4ˢ '88'5=ˢ 845 45 '(1ˢ 14(1ˢ G(5ˢ (5 4(ˢ @ = 72'ˢ (ˢ 67(ˢ (:8674ˢ 145?(;'=ˢ ?'8;4?4 4ˢ 5=5ˢ @=887 1!B Cˢ .4??45?(ˢ 45'1ˢ 4 'ˢ ('=ˢ 67'8ˢ (5 '67=&ˢ 71ˢ @ '178ˢ ;(1'5('88'5ʺ (?'?4 '2~ s7'8ˢ 4= 71ˢ 141'54 '!~ :ʺ (1?'7ˢ '(74 '5 ~ s7=1=?=ˢ (?ˢ 5=8ˢ =ˢ @=8ˢ 8A;72'8ˢ '5;= 7@ (ˢ @4 454 '5ˢ ~ ;7ˢ =ˢ 8;(4(5ˢ 14 (;: =5'8'5'8ˢ ~ 4ˢ ;7ˢ 2'5 7(ˢ '7ˢ 67(ˢ (?' (ˢ 4884ˢ ?';75 7 ˢ =;':78ˢ ('5'8ˢ 4ˢ 5 2';'8ˢ 4ˢ -!ˢ ; '@ 7 Aˢ @3 (8':78ˢ 5=:'2' 4 7 !~

ˢ 67(1 '8 (145ˢ '8 7?ˢ 5=58' 457'57 '88'5ʺ < 78 48 54ˢ 8(2 4 (ˢ ;(145ˢ (5 '6771~

.48@=5?4=ˢ 7; = '8ˢ 4884ˢ ' 5= 'ˢ 67ʺ @=8ˢ 8A;7271ˢ ,171ˢ <2= 7'ˢ 4ˢ (5 4ˢ 8A;7271ˢ - 71!ˢ =8ˢ 8A;7271ˢ , (71ˢ 5=5ˢ ;5' (ˢ (5 4(ˢ =;48ˢ 5 2';(5Aˢ '5ˢ 2'5 7(1ˢ 2':4 5';(1ˢ' 4@84 4!ˢ ˢ (5 4ˢ 8A;7271ˢ - 71ˢ <2= 7'884ˢ @(4 ˢ 49ˢ =?';4ˢ 7:2'5'4584ˢ 8A;72ʺ &'ˢ '5ˢ 67=ˢ = 71ˢ ;(145ˢ 2'5 7(ˢ 4ˢ ;3((; 4 ':78ˢ 0':4 7';'8ˢ 49((71ˢ ;=584 (7 !B,C) 2(:4178ˢ '16 '4ˢ 49ˢ '8 =ˢ =?';4ˢ 49ˢ @ˢ

ˢ ˢ ˢ #ˢ ˢ ˢ 1 $ ˢ ! + ˢ '5ˢ =?24'(5=ˢ 4ˢ 4&ˢ 4 78 =ˢ =?';4ˢ 4 (: (54=ˢ ''';4 Aˢ A ('8ˢ '5ˢ ':2'= 34;(ˢ 0 (24'(5(ˢ 8A;72ʺ 5ʺ <(22=ˢ ,1'ˢ 1(5'<48 '88'1(ˢ '5?'S ;'(ˢ 5=5ˢ 8=271ˢ # ˢ 8 ?ˢ (:ˢ (55'8ˢ =; '5 45 '8ˢ # %1 ˢ" # ˢ 42 '4(5ʺ - ˢ (:ˢ '1141= (:'2'ˢ '5ˢ 0':4 5'(ˢ (?ˢ 2' ; (71ˢ 4241 45 (ˢ 49@ '145?(ˢ 787 @((1ˢ <7'884Mˢ 67=?ˢ 757 (ˢ @ =:(5?71ˢ 878;;@'!

= =ˢ 3A;ˢ (55= 71ˢ <4 4ˢ 1'224ˢ 48 '1=5'(ˢ (5 R67' (41ˢ 2=5 4ˢ 1(G= 4 (ˢ '5?';(4ˢ '?45 7 !ˢ 8 4ˢ 45'1ˢ =ˢ (5 '67= 71ˢ ;=5845878ˢ 6 'ʺ (?ˢ (5 '67'88'1(8ˢ '58; '@ '=548ˢ 4ˢ`' 4 (8ˢ (=<(8ˢ (@@422(5 ˢ 1(5ʺ 1=145 ʺ 3(:4''?78ˢ 488; ˢ 4 8ʺ =15'(ˢ < (145 (ˢ =15'(ˢ 48 ' '(ˢ '8 (71ˢ 2' ; (71ˢ ?48'?; (45&ˢ 7 !) 4 4 78ˢ 5' '?4ˢ 4ˢ (;;7 (4ˢ '567' ˢ Kˢ 48ˢ (5;'45548ˢ 0'8 =' 48ˢ ;42248ˢ 1414ˢ 67ʺ 5I4 ='45ˢ Kˢ <=5?X48ˢ 674ˢ 87 ˢ 2(ˢ 8'1@24ˢ (?' '=5ˢ =5 ˢ (ˢ ;4ˢ 674ˢ G4ˢ ; ='8ˢ 7 ʺ;4 ('5ˢ ?4 4ˢ ?4ˢ ;4 ' 7?4ˢ 1='58ˢ Kˢ <= ˢ (ˢ 2(ˢ %X ' Xˢ 674ˢ ;427ʺ ?48ˢ 0'8 =' 48ˢ ;=5 41@= ('548ˢ 1('8ˢ 42ˢ ;4@45?(5 ˢ 674ˢ 1(' 42I42=' 54&ˢ Kˢ 145ˢ ?48ˢ 41@8ˢ 4ˢ ?48ˢ 2'479ˢ 674ˢ 5=78ˢ ;(;34ˢ 754ˢ @('4ˢ ?48ˢ ;' ;=58 (5;48ˢ 248ˢ 48@ ' 8ˢ ('145ˢ KˢG78 48\I 4ˢ 84ˢ ; =L45ˢ @='5ˢ 45ˢ ? ='ˢ ?4ˢ 248ˢ 4G4 4ˢ 45 'y 4145ˢ @=7ˢ 24ˢ =8ˢ ?48ˢ <('8ˢ 2= 867I'28ˢ 5I=5ˢ Kˢ @='5ˢ ?4ˢ @ 47 48ˢ C=8' ' 48ˢ ?4ˢ 247ˢ <(7884 X!Qˢ 4 4ˢ .4<249ˢ 87 ˢ 2I 7?4ˢ ?48ˢ 5;'45548ˢ 2'8 =' 48ˢ 4ˢ 87 ˢ 24ˢ ?4 4ˢ ?4ˢ ;4 ' 7?4ˢ ?Xˢ 247 8ˢ 47 48!B C

!#I8ˢ 8+G ˢ 2# 8+wˢ #- wˢ 1F8+# ˢ ˢ # # # ˢ 8UF-E8 ˢ 1 + wˢ +8J #2# 8wˢ SF ˢ E#J8-ˢ +8J8 ## +# F-ˢ -!0ˢ JF2#-ˢ 8XH# 8 ˢ -#I8ˢ 2# 8+wˢ <+# wIwˢ -@ ˢ I8 F- 8ˢ - 28I8+# ˢ 8ˢ I82F [ˢ E 8wˢ 8ˢ 2 #Jwˢ <8 # F-ˢ E8<J+E# wˢ I82ˢ F wˢ E8-#E8+8F F+ˢ SF#ESF#Eˢ E8 F ˢ E8ˢ 8 +F ˢ 1 # ˢ -8 # F+ˢ ˢ 2# 8+ -ˢ SF -E ˢ -@< ˢ 8X # #--8ˢ #ESF8ˢ F T+ˢ kˢ 8ˢ + +F ˢ # # F-ˢ # -#G # -ˢ 1F#--8ˢ # # 8ˢ EF # EF ˢ 8-

;#+ˢ E J F-ˢ H -ˢ - 28F-ˢ E8ˢ +8 F-ˢ # 8+ #J#-ˢ G8 -ˢ # ˢ <8+8ˢ 8X# # ˢ E8ˢ +#G# 8ˢ !J+# 8 E#ˢ 2# 8+ -ˢ H #J#-ˢ # 8+ #-ˢ ˢ <8 # F-ˢ #G -ˢ 1F#--8ˢ 1 8 F+ @Mˢ H8+8ˢ +8ˢ G+8 ˢ F 8+-ˢ 1ˢ <#22 +-ˢ Mˢ Eˢ F 8 -ˢ 1ˢ - 8ˢ # ˢ +82 Eˢ -ˢ 822ˢ +FE8ˢ -ˢ + FGH ˢ # Hˢ ; +# F-ˢ 1#GF+8-ˢ Eˢ E8I#J8-ˢ Aˢ Eˢ - 8ˢ 1ˢ H8-8ˢ 2 8+ˢ - +ˢ # ˢ " 'ˢ 1ˢ - ˢ) 'ˢ H8+8ˢ +8ˢ 2-ˢ ˢ G+8 ˢ F 8+ˢ Mˢ 1ˢ # -J+# 8Eˢ F 8 -ˢ 1ˢ - 8ˢ NJˢ H#JHˢ <+ I8ˢ H ˢ H8ˢ +#-Hˢ H Eˢ 28 8+-ˢ 81 +8ˢ H8ˢ ++#I 2ˢ 1

B Cˢ =24 =1!ˢ @!ˢ 9''ˢ 9' ˢ 99''!
B,Cˢ "=75 I8ˢ] (42';ˢ =418ˢ t;!ˢ (58!ˢ . !ˢ !ˢ ;(?!ˢ =2!ˢ ˢ 5 '6!ˢ @! !
B Cˢ 41!ˢ ?=ˢ I ;(?ˢ ?48ˢ 58; !ˢ !ˢ ˢ ('8ˢ ZMMˢ @!ˢ !-,!ˢ Fˢ ˢ '8ˢ (ˢ 8 =5 ˢ @ 4871@ '=5ˢ '5ˢ <(=7ˢ =<ˢ 34ˢ (5 '67' Lˢ =< Fˢ '58ˢ (ˢ '5ˢ 42(5?ˢ 3(ˢ '8ˢ 49'8 45;4ˢ '5ˢ 34ˢ '82(5?ˢ 49 45?8ˢ <(34ˢ :(;mˢ 3(5ˢ 34ˢ 4(;3ˢ =< 4;= ?8ˢ (5?ˢ '8ˢ 2=8ˢ '5ˢ 34ˢ 9G 1'8 ˢ V3';3ˢ '5 62 48ˢ 34ˢ = ' '5(2ˢ @=@72('=5ˢ =< 34ˢ ;=75 L!Q

B ! ! / ! !

K f (';m '5 3('m'5 ?=1!Q ;! -!) [=8 4(67'?41 '567' '8 (=15'(4 8 (5 '67'88'1 ((.=1(S 5'8 = ' '541 3(:7'884! '5 ;G78 @4 4 67(5 '8 4 4 4 7?' = @27 (5= (5?(875 67^ ;2('88'1 ' '5?78 '(1 4 '5 45'71 2(74 4! B C

7: 3(;71 35';71 .4 '8 (= (' ;3'@=4 (1 '@=41 ((8; '@8'884 O':4 5';((5 4 ! ('& ;' (? 45 71 5((8=4;72= 2 '5= =:78 4 (2' (5 '67'= 48 49 67':78 4(5?41 5(('=541 ?4& 8; '@8' 8';72= ,1= =;42'578! 45' 578 ! (';' '5 4?4 ?1(;3(5(87;;488= 8; '@8' OL1571 @('1 ('54 @('1 O':4 5';4 G79 (4 4 51 O':4 5= 71 (41 674 5 49 4 78 '88'S 1= OL15= 71 =?';4 4?' 71 3(:4178 '5 '(?4 8'172 ;71 OL15= O':4 5';= ';;3 ?'8;'@72 7: 3(;3' '49 4=?41 =?';4! ?(15(578 # 141'5' =4 ^ 35'; O':4 5458'8 67' # 4 4 7 (O':4 5= 71 # $ # !) ';;3 (145 O':4 5';71 '5 67= # - M - # 141= (' 4?' 71 48 '5 '(?4 49 =?';4 OL15= 71 8^;72 Z'5' 4G ' 674 5 2(7?(884 '78 '5 @'8 =2((? %=88'71 '884 ('=5H ?4 L1:=2'8 @ 11'88('5 67(=?';41 '8 71 A) @('1 ('54 !@('1 O':4 5';4 8; '@ 71 Q '5 67= 4 @'7 ((2'((1'5(O':4 5';((5 '67((5 4 81;7271 =; (71 8; '@ (84 ((4884 48 (7 !

(1'5('8 (((?'8 2\V (w ;=58 '@ (8('8 ?(4 =8 ;5?75 2' 4 (71 7871 (5 4 ! (';' (?S 45 71 '5 O':4 5'('5 (27'884 ;71 8 =4 ';(4 '(1 (:'5?4 -) $ (567(1 (: '1141= (:'2' 49;72 (<74 ' 4 8':78 '@8'8 '? (: '5 '584;= ?41=58 (5 ':78 7 '5 =24 =145'8 ?4 (=58 (71 4884 ;=5<2?=!B,C =48'1 # ! ;78 =?41 (@7? 35';=8!! O':4 5=8 (5=8;' =22(5?78! 67 2' 4 (7 (7871 4884 '5?' '?771 4 8 '88' (84 =484=8 ;=1'& 41 45 '71 1=57145 (?4;2((5 ! B C

s7':78 4(67^ ?4 =;4 42 ';(*#G ?4 (5 '67' (4 2' 4 (71 '5 O':4 5'(?'; (875 @(& 71 @=:(:'2'('?4 @= 4 75 4??45?(4 ' ('= ;7 =9 '8 (49;278' 4 '5 O':4 5'((? 2' 4 (7 (?4145 (49@ '145?(4 45 (<74 ' ~ 7 5=5''5(O':4 5';(2' 4 (71 8'5 @(' ; 5=1'5((:= 71 ~ 5?45(1 3(; 71 4 78 '88'1'8 '45 (2':78 4 .42' '=5R8 '?45 ' (8 4 (?'& '=571 ;= (175' (8 4 =;71 4 78 (71 8'1'2' 7?4~

=55722 67'?41 84 41 (;7 4 ' '884 2= '(5 7 ?71 3(; =15'(75= 427 '; 7 (?<(:72(8! (1(5?(5 ! O':4 5=8 45'1 2' 4 (71 49@4 48 <7'884 67'(8;'2';4] 4 ((5'8 2' 4 (71 7878 4 (@45' 78 ' 5= 78 H 3=; 1'5'14 ;=584; (5471 4884 541= 54 (:' !] 4 1(5'8 45' ((? O'S :4 5=8 5722('22('=!] 4 1(5'8 7'?48 (2'45 4 (5 4 ' 5= '!B C 7'?71 (7 41 = ?'541 4 ?=;& '5(8 '5 O':4 5'(' 7'884 @2(54 ;=1@4 71 48 B! C 48 (5<':78 55(2':78 '5?';(5 4 2'5 7(O':4 S 5';('5 67(=9 # (71 8' 5'<';(B C 4<4 45 ':78 4 78 '88' ('8 ; '@ = ':78 ;;248'(8 ';'8 ! '?674 @2(54 ?41=58 (5 4 = '78 O':4 5'^ 87@4 <';'4 '5 67(7'?71 ^ 7:'674 '875 7 !

7'?^ O':4 5 (41= (5 7 !(' 4 5(;3@ (? (5571 ! nkr BZC 49 4 78 '8 55(2':78 67=8

B C .=1(5 57567(1 O':4 5'(1 42 (2'67(1 O':4 5'A @(4 (41'4 4! B,C =24 = (! @!2! '!
B C '4;3 =4 A ?'8;'@7 ;3'@=4 A 35'; 7: (;3 141'5' 8A;72= 91= =:(8 '5 '(? @! - ;! ! G 8?41 141'54 4 45' 578 4 ' 4;3(558 =:= (5 '67'= 48 4 =;42'5! ;! - - Z! Y884 ! '1= ?! @! 4 '4;3 4:=2'(8 48 4 78 '5 '(? @! - 65 4 '(1 7'?71 141'5' ':'?! 5! !
B C 4 42!] (2! ! ! F (1 o4674 7'?(8 3(:45 !Q
B-C %'?4 =24 = (! @! 99' 9 9' 9 ' 99'9 4 94 '!
$ %4 8'= O':4 5';((5 42' ! (274 ;! ! =5?! 4 5' 4 (4 8'= (1' M !
BZC =24 = (! @! 99 4 9'!) 2(34 478 = 1(; =:' 71 4<4 p 49 (' '8 55(2':78 4 582'8 (? (55 ,ZZ @! 2- d r w = =?'; =?24'(5= (?384 4=!

+ ʾ # ʾ(@@422(ʾ67" =<4 7''ʾ ʾO':4 5'(G .4 =1ʾ 1(';'8 (2;=5'8 7'?(
@ 88 ' ''8 ;= (55= '5 4 41@ 71ʾ <'''884ʾ 67'(3= 45?'8 7';27 ('':78 <'?41 @ 48 (4 4;7&
8('ʾ (?41ʾ3(:45ʾ % ('8 " (? (55! , ʾ7:"@ (8 4 4(87:G75 75ʾ = 1(;71ʾ8; '@ '884 5=5S
5722(?4 4 ':78 (5 '67'8 43=57'5ʾ4ʾ?4 ':7 '8ʾ4ʾ 454(2= '(.; 71ʾ O':4 5'(4ʾ 4ʾ= ?'5(884 7ʾ
=15'(O'::; 5= 71ʾ 3 =5';(41= '(1ʾ (58<4 45 7 ʾ (; G5 7571ʾ 4?' 4 45! 7ʾ =27145ʾ 67=?
@=8 4((! (';'= @7 (71ʾ K # ʾ - B (@@422(71ʾ 48 !B2C 41= (5 7 ʾ 7'?;4
O':4 5" 88;;72= 5=5= '5 < (145 '8 5'4 ';'8 =;3=?''ʾ 67= 71ʾ 4 78 (941@2('('5 ':2'= 34;(
=V4584 ;=584 (5 7 !B,C 7'?(8 '5 O':4 5'(@45' 78 ' 5= =8 <7'884 (884 'ʾ 67'?41ʾ '5m4 &
=578!B C ʾ ';4 = @ =<' 4'7ʾ K 84 548;' 4 67=1=?= 5'3'2 (1ʾ (:87 ?4 ?';" @= 48 ʾ 67=? 5=5
K ?';(7ʾ (: (2'67= 3'2=8=@3= 71 Q B C) ' = ʾ 467'?41ʾ ' 71ʾ (2'=67'5 ?=; 71ʾ % ʾ
(1ʾ;=5<'?45 4ʾ@ P 4:78 3'8 = 'X'8 =: 7?4 4ʾ67(1 '8 84 2'5 71ʾ O':4 5';(8 ' 5(71ʾ54; 55(248
'5 422' 4 4J 54; ' 4 5(;3";3 =5';=5ʾ 5 ; (?= (< (145 (ʾ3(; 45 .ʾ'54?' (ʾ7567(1ʾ '?'884
@ =<' 4(7 H

7'?71ʾ O':4 5'(4 141'5''ʾ4 71ʾ ' 4 5(;3 '5 5(('=54 142'" 7:;=1(458'8ʾ67=? 8'; (@S
@422(71ʾ <7'884 '567' ʾ ($ # ʾ@ (4;'@7= .4 '8 '(;3" @'?(ʾ 67" '5 @ 12'= '8 = =;;7:7' ʾ
(55= 3 '8 " ,-ʾB-C ' 4 5(;3" 4 :(875) K $ # ʾ 1 ʾ. ʾ $ ʾC # *8
#$ ʾ ʾ ʾ ʾ ʾ ʾ ʾ - # # ʾ $ # B W 7:;=1(ʾ5=145 7'?(R .4 '8 '(;3"
.(: '554ʾ 4ʾ=;;'878 48ʾ'5 '8 ʾ@ (42'=ʾ75?4 4ʾ?'; 71ʾ48ʾ@ 12'71ʾ 7:;=1(!ʾB C 1' = =5T
2(71ʾ'58' 541ʾ =55(;'(8 7?';41ʾ ?4 67= ?';' 7 ʾ K ʾ ʾ# - ʾ ʾ $ ʾ# ʾ ʾ # @8
$ B W 8 <7'ʾ67" ?4;4 ('ʾ;71ʾ <7'?'8!ʾ 2(:4 ! @! , !

41= (5 7ʾ''?41ʾ 7'?1ʾ O':4 5" '5 5(('= '4 4 4 8'=5'8 (1(5'^ʾ67(1ʾ $ ʾ # @
ʾ<(; (1ʾ <7'884ʾ 4 78 " 55(248ʾ(: =;3=?'= 8(4;72= 5=5= ;' ('ʾ?4;2((5 !BZC 41= (5 7ʾ
4 '(1ʾ7ʾ?'; 71ʾ48 ʾ(4 78 '88'1'8 ; '@ = ':78 ;;248'(8 ';'8ʾ67= 71ʾ5=55722''ʾ7 '4;378ʾ4ʾ4G78
;3=2'(8 48ʾ2=5 4 (5 4 =:71ʾ8; '@84 4ʾ81;72= = 4ʾ =! ! (48(ʾ?4 7R?'8 ' (55';'8 '5&U
67' ʾ A (@71ʾ':" 5714 71ʾ 4 8771ʾ4?'8;; 4 ?';75 7 ʾ (674 (55=8 5=55722" ';45=8 '5 ?'8;'&
K @''5(@4 1(545 ʾo4674 <(8 4884 49'8 ' (h5ʾ4(2' 4 '8 '5(5?(4ʾ;71ʾ'5 42'67'(<4 4 4:78 @7:2';'8ʾ
K @ ' ('8674 ('=5':78ʾ] (4;'8 2' 4 '8 7 75 7 !Q C ((ʾ@54 4 4(K 5 ;(8 '8 O42 4 '= 71ʾ
K (:72(8 4@4 (8 <7'884 2' 4 '8] (4;'8 ;=5<4; (8!QBMC (145] 1;(1ʾ2'5 7(1ʾ' 5= (884ʾ 4 8"
2' 4 (8] 1;(8 787 @(4 '5 ʾ49 4=?41ʾ (88(4 1(5'<48 71ʾ48 !! 567'ʾ45'1ʾ84 s7'5 = 7 'u 8; '@ʾ
8'884 O# ʾ54 '5 4 ;4@ (4@'8 =2(ʾ87(( ] (22'8 ;=58'2'(5=8;4 45 7 !B2 C
= = ʾ 7'?71ʾ O':4 5'84 141'5''ʾ8(4;72= 5=5= = 1(;78 (8842458'8 '5 =?';4 ?'; = #
ʾ6741ʾ?4;'1= 884472= 49((71ʾ <7'884ʾ 'ʾ ?=; 78 ! 8 2478 4 @ 488'8 4 :'8 <(4 7 !)

B C %ʾ (! 55(2ʾ(?!(55! , !)& 3 =5';=5 3=; 49 ''ʾ78674 (? 8A;727 (,171! %'?4 55(2! 2 ! (? (55!
M ʾ5= ! ,ʾ@! , ʾ4ʾM ʾ@! , ! 41ʾ % O('8 ! 55(2ʾ(? (55 ʾ4ʾ =2 (5! 5(?! @! ,2 ! G'7? 4 (ʾ 3 =S
5';=5 ?'; 71ʾ K . ʾ ʾ # B 67=? ʾ<'2'78 '" ;=5;'55(884 ?';' 7ʾ@(72= (5 4 '5' 71ʾA A ;=1175'8!
2(34 !@! , ! r̂ ȧ ! !
B,C =24 =1ʾ@!99" 4ʾ9''! B C '5m4 ! e= 2ʾ =5?! Z tʾ !ʾ@ʾ ! B C 78;72! , , ! :!
B-C =24 =1! @! 999'9ʾ2''ʾ;'ʾ;') A2'71ʾ'8 7? 4<; 7ʾ(& 2(34 4= (? (171ʾ ,Z ʾ@!2--ʾ4ʾ -M! %'?4 =24 !
@! ; ʾ4ʾ;=5<4ʾ =24 =1! @! 4999ʾ7:" 55(2'71ʾ5= A ;3 =5';A (? @ '8 '5(1ʾ'5 4 ' (41ʾ 4 =;(5 7 ʾ ;71ʾ ' 4 5(&!
;3" =?';4 =?24'(5=ʾ<=2! Z ʾ;=2! !
B C ' 4 5(;3" =?49 =?2! <=2! Z ʾ;= ! ʾ2'5! ! r
BZC ʾ(@7? ' 4 5(;3! =?! =?2! <=2! ,Z ʾ;=2! ʾ'5 14?'= ;= 71'#4!
B C 4 422=] ('! ! ! bMC :! !'! b C :! ! '

K 34 =m248 '83 (578; '@ V3';3 V4 3(4 ?'8;= 4 4? '8 34 8(2 4 =< (8342 V ' 45 '5 34
K 2(4 45? =< 34 3 ;45 7 L!QB C 5 '8 = =?';4 3A; 3(:45 7 O
K - # $ # 1 #9 $! - $ # # # $
A B W 7=8 ' 548 8=24 1 548 <(;'4:(5 7'?A ;=5 4 (5 ':78 8' (72 172 ' 7?'5':78 ;71
;'8 4 45' 4 <(;'4:(5 (145'(67A @4 ' 548 '8 =8 (58' 4 <(;'4:(5 =15 (55=!

K = 1(;78 '8 4 ' <7' 4 7?' 78 * 4 5 '65' (71 0':4 5';(71 8;'45 '88'1 '8 8; '@8' 674 2'5&
K 7(87(('(0'8 = '(1 # 72 = ?'; ((67A 4 '(1571 ;9 (4 1(5= 3(:4 7 '5
K @ 4 '=! 9;4 @ (67A?(1 49 ?'; (0'8 = '('5 4 78 = 3(:4= =?';4 41: (5(;4= #
K # ?'; = (5 4 (57=8 @27867(1 ;;; 49((=!QB ,C

7'?71 = ?'541 5=5 @45' 78 78674 (? (? 45 71 5 2= 71 '5 0':4<5'(?4<4;'884 4 8 (: 3= &
45?'8 ' ':78 (:8 '574 '5 ! 55(248 2 55'45848 h? (5571 - 4 55(248 % ('8 = 7 ((?
(5571 - 27;7245 4 =8 45?75 ! s7(7= ' '8 (? (5571 '827 5 '567'75) A !
A * * 0 + # - 7 # # B W A;78 I =5(2 ('! 4!] '2?(8& ('78 .4 '78

7'?(0':4 5'A 847 .4 '8 (78 ?4;488') s7u8?((4 7'?';'8 ' ':78 78674 (? 5=8 (41S
@= ('5 5=55722'8 0':4 5'A 4 '=5':78 @4 ?7 (884 (2': <784 ?41=58 ('!B C 5 4 8'=54 0':4 5';(
(5 42' (3A' (1 '5 '22(;=1@=8' ((: I =55422= 67(1 '5 (2 4 (4?422' 4 :(0':4 5';(
@ = K 454 75 ((: '45 4 Q 875 K - # # ! # # B W 454 75 7'?A (:
'45 4! 0'5; =;48 22':4 5';A # # 4 ##D s74 ;78 G (:= 541@4 8(;4 7'?71!
0'5; @27 '1 (5 '67A ;' ' (48 '5 0':4 5'('5 67':78 8': 7'?A ;(?41'(8 4 := 48 4 4&
1= (8(; (!8 (74 75 / \ # "\ ## ## '5 67':78 3 '8 '(5 @ '1A '
87;;458'8 42 87;;'8'8 541= ':78 (34? (8 @'8;=@(248 4 =5(8 4 '(@=874 75 ! 41= ' 5= d
674 ;71 <7'884 (:= 4 (8(; 71 87: 67= 7'?A =:= (8'5 72(H 454 ('=54 (: '@8= <4 4 'S
27 '= @ =846745 48 '5 =41= '(1 5 <(22= (:= '8 ;'45 'A :=5 4 1(2' (2 ('(8 74:(5 N
75?4 .=:= (5= (45 (5 '67'88' 571 4' ';71 # (7'?'8 '1@4 (884 34=?= (8 0(8(78 8'5 '&
2('884 2('=54 @(4<4;' !B C 0'5; '5 4 0':4 548 5'3'2 8(5; '78 (:= 4 6741 (@@422(:(5
4 @ - # W := 8(;4 ;(1@ s74 ;7752 7 '5 55(2':78 2 =5'458':78 (? (55! ;9'
@! Z- 4 '5 55(2':78 % ('8 = 71 (? (5571 4 5?41!B-C) 7(2?78 ' :'88'78 ('A (5 '67'&
(71 @ =<488= 3A 4?' ('78 48 (5 4 2(34 4= @! , M ?'8;'@2'5A 7'?71 (; (78 ! (&
';' 41@= 4 ' 5 ?(15(=8 <7'884 49 (G= 71 1=57145 '8 ?4;2((' !

67'?41 7'?';A .42' '=5'8 = 875 '5 0':4 5'(48 ' '(7 4(45714 (4 G78 71 =27145
y9' 4 4 N 5=5 8=271 ;5'1 78674 3=?'4 1(545 ' 78 |5(Z1 4 ' 548 8(; ' 4 <48 ' ' (8 w (1&
4 0#' Z @@=22= 58 48 ' '(;A 4 = 71674 4= 71 4 4 71 67=8 87@ ('5 (58' 7 '5?';('
4 7 (4 '(1 78674 3=?'4 8 (';(?';' # 4 @ A 4 4(<=5 '71 2(;771!

'2C 8 24 ' '5 =< E ' '5 = @! , ! E (4I8 5 '6J ! @! ! J
B,C 0':4 5! 5 '6! =5?! - @!M,! =5<4 3'2=8=@3! (58! =# ,Z @! - - #4('5 4<(;4 45?! Z, 4
I0(= (5 (:72=78 0'8 =< 42! =5?! ZZ ! @! Z* J = (5? 0'8 =< 34 7'?U @! MLZ 4 ; (
;(?! ('8 =2! M @! M!
b C '884 ! ! 4 42' ! 35';= ! 0':4 5!
B C 2'''! ^ ;!M- 4? 0(?7'5! ('8 Z, ! , @! ,! '=?= ';4?! E48842'5 ! 18 42 Z - ;! , !
@!! !- 5= ! Z!
B -C %'?4 @27 ('5 %=;(:72('= 5=8 = =@= (@3';= =;4 G 'Z4!

! ! / ! !

+ +F + +F+ 8 - X +F # G8 #F JF2 F- SFT 8J'#<- 82#G# H+#- # 8J JJ28-# 0
+F $ - +8- 8J G#- + F- 12yJ#F G8+8 8- H J 8 F- 28+8 < F8+F @ 28- [2 #8 -8-
<2 8 # E#J 8 ` 1F#--8 <+wJ#<F - H #J +F # 8+ #w &8 - 8 $H#2 0 # 2#F- 8X
! JH # H 8 ++ - F $H #J#w +8G#- 1+ +8 EF - 8+8X#--8 +# J 2F - _GW` `)
J -8J+ - 0) ; 8+ 2#F E F JJJJ# I ### HwJ -F) K 1 ! " 1 # M - #
K # M - $ $+ E#F I E# SF8+JFF J + G +#F G8- F G8 #8 -# F- m # SF 8
M #<-8 J < F- 8- UF+ - <8+ 8 ` -8 I8- 8#- E# #--F+F Q

2'?41 55(248 (? (55! =(km '567'75) K = 8 M - # <'2' O# - O# 1 1 # $
K '5 ; (1 @= M 1 # * E ! $ # # M - $ - #
K 0 ! - 0 ! # #$ B W = 8 (= (' <'2' '(22 4 '8 0':4 5'A (@7?] 4(22(&
'(&<'2 87@ (' 4 '=541 (884 '5 ; (1 @= '<4 '5 4 ?7=8 ;=2248 '! 4! '5 4 2:(! ';75 (4&
5'45848 =; ; '871 <7'884 (' 4 ` R

s7(7= ('8 4(5?41 5(('=541 3'8 4 :'8 49 4 78 '8 =?';':78 ;=5 4974 75) A ! #
K # - ; M - # ! # # M - $ 1 #
A M - # - $ M - # _ # M - # # 0 _
K 0 ! < _ 6 1 a M - $ 11 # # $ # -

K ! # #] # $ $ 1 # - # M - #
K @- $ 1 $ # # _ ! $ 4 1 $ C
K 0 ! C 0 ! x < # #$ # # # - $ # . O 9
K ! $ M - # O1 # $ - #
K # - # O $ 1 # # - B J

0A; (? 2' 4 (1 '5 4 @ 4 ((846745 41 4??75 845871 4 5(('=541)J

55= 3 '8 -Z 5=5= 4 ' 48'<<'= (= (' <'2' '(22 X '8 2':4 5'A! A2'71 (? 6¥4 ;771
48 71 (' (45'458':78 ;=5 (' (= ('71 <'2'71 '(22'! (@ 78 48 (= ('78 '5 @ A2'= '8 = 4
G7 (' * (= ('78 G7 (145 71 =2'8 4 %45 ' 4] 45'= 71 =15'71 (45'458':78 67=? 5=5 45' 4
;=5 (' 4=8 ?7 (5 4 ' (' (? '5 45 71 '8 7? B541@4 (? ':7 71 :=('71 49' 45?7 (!C

55= 3 '8 - ! =8 67(1 4884 ?4;4'5 ('1 '8 4 ' '5 49 0':4 5'A (= ('78 <'2'78 '(22
5= '&=:8'?71 =; ; '878 48 @ =@4 (88' '5 4 '5 4 2:(5 '! 4! ?7=8 ;=2248 '8 =8 8'; ?'; =8 '5
4 '=54 0 L (=2(5 N 4 4 ` =; ; '?4 75 471 5(1 ?4@ A?(' 4=8 B (45'45848 C 4 @ =@&
4 4(' ;4;'5' N1 a =4 (' 78)

; ; '878 48 (= ('78 <'2'78 '(22') @ =@4 (88' ' '?(' '8 (' 4 '=!

7 ('5(' ; 248 '(' 67= 71 '=2(' G78G7 (5?71) ?4?4 75 14 ' (1 1= 41 '8 = . 4 '!

(5?41 5(('=541 4<4 =5 55(248 5'8<(245848 (? (5571 4 '7 (' @=8 =:' 7 (' 4=5'8 (5
=5 '<'; '8 '!4! (? (5571 3 '8 !) 5 =L2458':78 (= (' ;(@ ' ' (8 4; 4 4<4 7 (? (5571
4 '71 (5 4 1= 41 4=5'X 3'8 4 :'8) K ! # 1 # M - # # M - $ W A2'71 (?
+K 674 ;771 48 71 ;=5 (' (= ('71 (' (45'458':78 '5 67= 4 '@84 ;(@ 78 48 84? 754?' ('8878
K 48 G7 (58 @4 ` 84 := 48 4'8 ?'1 '887 71 !F

!B C %=9 7' (' 23VL?'= I 24 '= 4 I '(5= '(4 @ 4 (7 4 =5 75?4 478 4(= 24&
'545 = 71 =15'71! 5?4 ;=22' 45?71 '567' 2(34 478 0':4 5= =1 571'5(' <7'884 4=8 u@';=8 8w! =5 (5=8
(1@48 48 27 '(248 4 '? 4578 (2'=8 2=;= 71 45'=8! (! , !

67" (7; = 48 5 2" O'8 = '(8 5' 4 8(2'8 4; 4 5= (5 49 (5;3=5'(3=54 - ` " * <7'884 3=45';71! K 5 34 < (145 =< 3 45';'(5 3'8 = L @ 484 4? :L 784:'78 < =<5 (5;3=5'(& K 3=5 ' ' '8 8 (4? 3(8=78 34 #'5 =< L 4I8 : = 34 ;=584; (4? V= 5?4 @'22(8 = . # (5? K F (5? 34 V= U2''@@4? 234 1 !QB2C

2;4; =15'(8'172 ;=22((@2(54 '5?';(5 4 78 '88'1 (1 . 42' '=541 42 (71 6784 @ =;72 ?7:'= 4 (7'?';(67(1674 4 3=45';'(4 (: '45 (2':78 (('8 4?' 4 (54" 2' = ':78 (? # # @4 45'884 49 '@8'8 3=47';71 55(2':78 (48 = '45= ;' (''8 (2':" ?41=58 ('B,C ??= 4 (2'7? 5= (7 ?' 5'88'5'71 67(1 '8 (5=8 '8 ; '@2= ':78 5722':" 67=? 8;'('5 =:8; (71 L8 4'*'(541@4 4= 71 75';71 # # (? ") # (1 ?42((<7'884 48 (5 4 ; 1 '?= = (@7? (:=541 !B C 67" (:' " 5'2 (#7? 4 (5 67(1 '" $HJ8 #J# 67= 71 141'5' O4 =?= 78 B C p 541@4 8' 4 4 ;7 '78 45' = 4 75(67=8 4 L " '5 3=45';'(;72 =8 <7'884 5((5 (5;3=5'(3= 4 (1 (8;'78 (@7? 784:'7'5!B-C 5 (2'(1 (? L 34548 4= 71 2L8 4 '(?42((<7'884 8; ':' 241458 249(5? '578 BB C 4 + -] <7'884 67=8 \ '24(8 '5 (2'(((72' 4<4 45 4 %' '2'= %=88'78 @27 :78 (7145 '8 4] 7 :4 24 378 '5 '884 ('=54 8'5 72(" ?4 L8 4 ''8 (:' = 71 4 7?' 4 ?41=58 (' ! BZC %=;41 '@8(1 67=? ('54 (:= 67'?41 4 ;3=2'(8 48 @=22=5'" . 3=?'" (:' =8 (1 =5 4 (:' = '5 3 L '(?'; =8 4884 (884 75 !B C <(22" 4 4 48 '5 37G78 =;'8 4 L (= 5= 75" 48 4 7?' '= ':78 B CC 6771 4 (=;'8 4 ' = (2'5 7('4: 1 (4 3(2?(';(8' 4 3=45';'(@4 45?(8' '5 67(# @= 45 41 8' 5'<';(' 7 8; ':75 %h = 4 4 722'(578!B2 C (84'8 ?';4:(5 7 23 ; 4 ¦ =p % w =' B22C @34= Y= \ w =B!B ,C . 4; 4 ?=;; 4(2' 4 3=85';71 4 L = 71 2'5 7($ # @= 45 41 8' 5'<';(4 B C 4 #'@@'5& '78 =8 45?' & (:' =8 ((';(1 (41 (; '5;h5 ('=548 494 ;4''?= = :41 @4 ((884!B C) ((4 = (@7? O':4 548 $ # 5'2 (2'7? 8' 5'<';(" 67(5 (79'2'(= 75?4 $ # (79'2'(' 7 '5 23VL?'" ;3(4=2= '(4 '5 %=;(:72(''8 I 24 '' I '(5' 4 (2'= 71! 2'5; 42' '= (= 71 ';5 (& 2'71 67" 4 8';4 4 (:';= ?';75 7 O $# 4 O $# p 4548 ;=5 (42871 8; ':45~ 141'5' % # / 5 % ' 4= 71 54 =@4 67" ' 541 ;=2Y5 4 (: =?4 (<=5 4 3(2?(';= ?4 ' (5 7 ! =5 45'75 41@= (67':78 '8 (1L8 4 '((: '45 4 ?42((<74 4 ;71 'm ?4 67':78 (:= 8; ':' 2': = 4 '=) K O4 ;72'8 4 3=45';71 49@4?' '=548 49 (=2715(8 O4 ;72'8 O=14 = 5= (8 <7'884N K 4 ;71 8;' 4 37G781=?" 49@4?' '=548 @(72= @=8 =G(8 49;'?'71) < % - 4

B C 5' 4 8(2 O'8 ! =5?! =\2Z Z ! @! !
B C 55('! 2 ! 55= ! @! ' ' 2 49 48 = '45= '5 = @= 4 =4 (J%4 ! 4? (' (' X =5?! iCpg !, @! ^gnr r=
B C (:= ! M 4?! (8(7:! 18 424? ^cQc ! @! 4 O74 '" 41=58 ('= '@8' ^ M @!2Z !
B C O4 =?= ! ! , !!- 4?! E 48842'5 ! @! , &M!!
B!=C 784:! 4@! (5 ! ! ! 2'7 '" ':2'= 3! =?! , ,!
BU C 241! 249 2U((@5! 8@7? O74 ! 41! ! @!2 M!
BZC !%=88'78 ?4 ?=2=H! =;3(! (5((5 ;! ,! HH 3484 (4 34 " - 3 # - [V3=1 34 4(3 (5? @2(54 8 (5? 424145 8 (4 ?4?';(4?!JI 4V =5U8 3 =5=2! @! ! =5?! Z !-!
B?$ '@ G= ! ;! U, ! 4?! (8(7:! @!Z, J C (8(7:=5 ':!
B U (%(P ?4 # ! ! !] 7 4 ! 58; ! @! MJUM 4 (8(7:! ':!
C) OL15= / '"% ` (@7? (8(7:=5 ':!
B C =5! '@8'<<' - @! !, M 4] 7 3:4 24 3 ?4 L8 4 ''8 4= ! (:' = ! ; !
B C ;(2' ! =5G4; ! (? %(=5&@! , B C #'@@'5 ! 5 '6! ;! 5! !

! ' ! / ! ! -

F' 4= 7 1' 2=;= 7 1' :=5(' : 5';':''8' '5?';(5 ':78' ;= 5= '884 ' ':" @'= 7 1' 84?48' 4 ' ;(1@7 1' 2 *8'7 1'
K' <'59' ' 7:" = 478' 4542(7 1' '5;72 7 7'5' (' ') ' ##Z'% # ' # ' !) * ;;'?7(' 48'
K '2'(' 4 (' 4' 4@'?(' (?' <'548' 4 A!!!'J!!!!!!!! :" 4' 5872A' :4(= 7 1' ==1 (41= (5 7 !QB2C

' ' 'K R ' ' ' ' ')

+ - ' 4 # !

=5<4 (5 7 ' 3A;' ;7 1' ''8' bG7A' 49' 3 5';7 1' 55(2':78' (?'" '4578' ?4' '8' 1 (' ''5'8 ' 7:" '5&
67' ' K' 5872(1' 67(5' - ' $ # # ' ;=2' ' @ =@4' ' (55'(1' 8' (1 ' # ' (@@422((1' <7'884' ('
K' %# 's' 4 ' $ ' $' - ' ' <7'884N' 4 ' 7 ' 8; '@8'884' 5872(8' #
K' '9' 67(7= ' 1458':78' (' (3('54' (:4884' ' % ' ' # '%# $ ' # t B'B, C
(8?41' 5= 7'5' 4 ' @ A;'@74' O(55=7'8 ' (;' O' 1 '2;=5'8' 49 (' =2715(8' O4 ;72'8' 5(' ('=548'
14 (= (' 2'5'78!) K' O(55=' '567' ' (3('5'8' @= 45 '(' <'= 45 4 ' ;' ;7 1 4; 78' ('] (?':78' (?'
K' <'541' (:'A' 5(' ('=545" ;(1' @ =?'?' ' 8; '@ =' ' ' # ' # % ' ' ' '
K' % # ' < B'Nga) (674*87(1' 5(' ('=541' @ =?'?' ' 8; '@ =' O' 1 '2;=' ' ' <
= =' 7578' 48 ' 4 ' '?41' O' 1 '2;=' (?' 6741' 48 78' '4578 '?4' O':4 5'(' 8; ':458 ' (@C I 422(7:" O':4 &'
5'(1' # ' 5872(1' (:' (5 '67'8' (@@422((1' <7'884' ?X;2(d !' (1' 4 =' O(55=5'8' 4 '@271' (5 4'
2;9(5? " (5" 41@= (' 8; '@ 7 1' <7'884' 1(5'<48 7 1' 48 ' (:' '5 '584;=!' 9 (' 45' 5' 78674' :=?'4'
(' @27 ':78' X?' (8' 49' (''8' =?';':78' '5' 67':58' =15':78' ' ' (8' L " ?48; ':' 7 ' 7 ' <'= 45 '88' 1('
4 ' 87:' 4 '(' @= 48 (4' ;=58 ' 7 (' 4' '5' 5872(' '5' (" 8' (' 4 ' ':78' 8 (?''8' (' 4 (' ?'8 (58' 4 ' =5S
'545 " '(' 8 ((' ;=5G75; (' 67=' 41@= 4' O(55=I 4 '@271' '8 7?' 494 ' ' ;7 1' (145' (:' 249(5? 4'
?4:422((1' @45' 78' '5 4 ''88; ' ='5548' ?=; " <(4(5 7 !) A 4 4(' 4 '@271' '8 7?' 141= (5' '8 =&'
4248 B C' 4 ;L2(9' '8 = 424' (5 '67'= ' 7 " @(4' 49' ((@=1(5'8' '884 (=54' ;=22((' ;7 1' ; 7?' '8'
?'867'8' '=5':78' =7 ('5 'O4' '] =88@2'5' ' (2;=54 '' ' 4 ' (2'= 7 1 ' 67" '5' 3(;' ;' ?4<'5'45?(' 5'3'2' '5 45&'
(7 1' 42'674 4!B C
'8 = 4248' '567' ' ';((' (' 3 5';':78' ;=5?' (1' <7'884' ':78' <4 4' 8A;72'8' (5 4' ;=5?' (1' (&'
3('541 ' 4 ' (145' G79 (' (=541' 845'= 41 I (3(=' 49 ' ' ' .48@7:2';(' (' '1 ((55'8' Z Z' (5 4&'
67((' (' ;'@'=54' ?424 (' <7'884 !) 79 (' =2'571& (2'(=' <2= 7' ' (55'8' kCC' 42' Z Z ' 67A' ?' 4 8' (8'
49' ('(5 ':78' ;=?';71' 24; '=5':78' = (' y8 ' 7 " 5= d ' (21 (8'78 4 ' 49' 4='] ':: =578 ' 67" @=8 4 '= 41'
24; '=541' (83(1=' @'(;4 4' (' ' 4 ' (; '8' ; '@ 7 '8 ' 4 ' L " 55(2':' 8' 1('8' ;=58=5(1' 4884' <(4&'
7 !B IC' =' (3('541' @(72=' (5 '67'= 41' 49'8 '1=' 5=5' 8=271' 49' %' '2Y' (?' '=54 ' 4 71' 4 '
49' 87@ (' 141= (=' 48 '1=5'=' (:=5'8' ?4' O= (4 = ' 4 ' 49' '@8'8' L '= 71' 55(2':78' (@7?' =84&'
@371 ' 49' 67':78' ;=58 (:(' < '# ' L " .4 41' 4 ' % ' ' ' ' 5=5' 1('8'
67(1' ' --' (5 '67'78' <7'884' (3('54!BZC' =;2'(78' 3 5';71' 49 (' =2715(8' O4 ;72'8

B C' (:=' ! ' ;!' - ' ':!' @!' , , ' 7:" ?4' Op8@(52(' 4 ' 42 ':4 '(' 4 ' ! ' @!' !' !' B, ' '41'8' ?4' '8' 2=;=' ;3(=!
B C' 2'5!' O'8 ' !, ' 4?!' O(?7'5!' <!' ' @!' Z' 4 ' !- ' ;!' !' 4 (' 4 (' ! ' ;!' M' ;?!' !' %=88'" @!' ' 4 ' 5= !' @! ,) -!'
(24' '4 !' . = 4 ?!' Z, ' 2!' , ' @!' M !' =5 486!' 8@ !' ?48' ='9'] 454 4' Z- ' !' , ' @!' , Z !
B C' '8 Y !' 4' ' (:!' @!' (8(7:!' 5 ?!' !-M ! ' @!Z !
B-C' '' 4654?(?' (' !' ?= ((=' ;=5' X2' 4 '@2=' ?4' O(55=5!' (? '?' =' Z- !' O7?8=5'] 4= !' p5!
B C'] ':: !*1!' = '?! Z ' !' - ' 5= !' ' @! !
BZC' ! =84@''" 'I4 (' 9=(!' Z, ' !' , ' @!' ' 4 ' (83(1 ' :=5?!' Z, ' @!' M !
' '

;=1 1 4 ;'(4<4 (? 4 1 @= (7?';7 1 ;D7':78 @728" 4 4 (3(5((5 '5 L:'(5' 4 (? ;;'?45 (&
2'(< ';(8 2' = (@ =<7 4 75 7;4 67=?(1 847 6741 =5578 ;45 7 1 7 :48 '5
< ';(;=5?'?'884 4 (7 !B2C%4 78 58; '@ '= '5 7 1 '?'('5 ' (5('5 45 (2' 4 '8 3=45';''8 @ =?''
84 (((=;=@'= '5!%(5?(2';'8 67(4 4<4 4:(3=45';48 (=87X @728=8 '5 7 1 '?'(1 @ =<7 '884
67=? ;7 (O4 =?= "=:8;7 (5(('=54 ;=5;= ?(!B,C K 3=45';48 # < # \ '@ = 488'
K '5 1 4?'(< ';(4 = (1 (' ' 1 (7 :48 ;=5?'?4 75 = <w'Jw 'N |@= Q '!4! @(72= @=8 :422"
=G(5" 4 1 @= (!B C (3('54 1 ;=5?' (1 4<4 4 ('78 49 4=?4 1 =84@3" 2=;= (? (557 1
(5 4 . = 1 (1 ;=5?' (1 X 4 '=?" 72'(5^ , (5 4 ! 4 . = 1 (1 =5?' (1 4<4 49 (2'&
2''8%(=5'(5'8 (? (557 1 (5 4 !Crg 4 '=?" 72'(5(8 MU ! 884 278 . = 5(1 ;=5?' (1 4<4 49
(:'" '; = '8 4 27?= 7 1 8 1 ;72('7 1 ('=5':78 (? (557 1 (5 4 !Z 4 '=?" 72'(5^ M
67=? ;7 1 4 ('" ('=5':78 @'(54 ;=5 45' ! %(=5'('^ 45'1 ('=548 49 <48 '8 (2'2' ''8 ?4?7; ^
875 2= = 67'567455'= (:'(5'8 (5 4 '= 48! ; '@8' @=8 4 ('7 1 884 '78 (1 := @=8 (83(1&
7 1 67" 5=5 @27 48 (? 1 ' ' 67(1 (55=8 / ' '5 4 G(; (4 1 @2" <75?(1 45 (4 (3('54 1 ;=5?"
;1 @ (1 67^ @((87 1 1 = 7 1 ' = 7 1 ?'8; 4@(5 '(X= 7 1 ?'2' X5 '(1 4 '5;' 4 (3('5'8 ;=5S
?''^ 4@=;3(1 (? (557 1 (5 4 ! 8(2 4 5 4<4 " ?4:4 4 =8 45?' !

67'?4 1 2=5 4 (5 4 249(5? " 4 1 @= (! # (: '45 (2':78 67':78? 1 49@2uS
(2(8 <7'884 @'(54 @(4 49 2': = + 6741 42 '8 u 4248 42 ;4 4 ;=4 (5478 ; '@ =
249(5? = ?';('! O 7G78 4 :(& 5= (5?(875) K JL8 \(8 L7<2F 1 ' 1 # #"' * " #
''\= @8 ;' '744' 8 ' ,3 " 9U = %" / # " #% % , " " 1 ` % D % " = 'L(
% % % # % # " S # " # % " B B C @724'78 4(?4 1 3(:4 '5 '8 '78 2': " 4 8'=54 67(1
('u ?=5(' 5=5 4 5(5 4 (G(5= 7 4 =544 (884 ' 4 ('78 84? 1 @4 (5 4 5 =5'5= '=!B-C
L 34(8 (8 '2'458'8 67" @(72= (5 4 '8 = 424 1 <2= 7' 4 5=5 84 1 42 ;' (7 ((('; ^(;3=
(=8 3454 4 =2L:'= 67(1 (: O '@@(;3= (:=54 4 =2= 1 1 = 5872(7 1 ! $ #
@(' 4 1 4 1 '5' '?674 (;;7 ('78 67(1 ((:=54 '@8= ?48' 6(5 7 7 (2':" '5?';('!B C L 34"
T< % 8 " 49 ' ' 8^;72= 849 = '5 4 4@3h5" ' (5 '5" " @78] 4= @3';7 1 ;7G78 @' =S
1 45 '5 ' 72(7 1 A % 6#$ $ G O4 1 :2(78 4 5(5 4 78 '5'(5= ; 72 (' !BZC =2L:'78
2': 7 1 8; '@8' ?4 5872'8 ' (55';'8 7 '@84 48 (7 !B C 27 (;378 '567' 6745?((4 1 4 '7 1 (?
5872(8 ' (55';(8 49@2= (5?(8 (2(7?'= 1 '887 1 (? 5872(1 67(5?(1& @4 45'884 ' (55'^ <'5'&
'1 (1 '5 67((" ?X 4:(5 ! # (:! 5;=2'8 3(:' ' 67" @ 1 8 ' ''8 (4 4 1 7 :(4 4 5'1 :=8 (;
7 :'548 49;' (4 (8874 " 4 (5 ! BMC =2= 1 ^78 249(5? '578 1 4 1 = ('8 ;' ' (':78 O':4 5'^ =&
1 =5 = '" # O':4 5'^ @(' 4 1 4 ('5' 67=? ;7 1 48 " '45" 48 '1 =5'= @2(54 ;=5;= ?(!

B C =55" '=5L8'(;! ! ! 4 Z 4 (83('5! @! !
B,C =;=@!%(5?(2! ! ;! O74 4 1 ! @! '@8'A M !
B C (:= ':! @! ! 67" (? 3A; X 1 @= (4<4 75 (O4 ;7248 3 5';'78 4 '?(; ' 58 4 O4 ;724 1 3=45';'7 1
5=5 (2'7 1 <7'884 67(1 '?(; ' 7 1 67" @ '1 78 5872(8 ' (55';(8 49@2= (' ?4 ==58 (49 2'7'= !Z ;! 4 49
(2''8 2=5 4 4 78 '= ':78 =;3(78 '5 2'(2X 4 (5((5U 2'5'" 4 :(875) K '?(; ' 78 @ '1 78 @27 1 :7 1 49 (8&
8' 4 '?4 5872((@@= (' !Q !Z ;! - @! ! B C '8 = ! ':! ! @! Z !
B-C (: ';" ':2'= 3! (! =5?! Z @! , !
B C 9 (:=54 ! @! M 4 ! 2'5! !, ;!Z ! 4 1 ! ?4 I ;(?! ?48 2(84 ! ! M ! , 4 ! -!) @4 28 2"
4 '<'=': 1 4 1 '5' @=22=5'" ;3=2'(8 48 L 34" 345A78 24= 1 4?48 4 (2''!
BZC ?'?'] =5= '78 7 ?! (! ! B C =2L: k(8(7: ('8! M ! ! * BMC 27 (;3 '5 7 1 (!

1ʻ <=ʻ 67Aʻ ?4ʻ @34ʻʻ 48 ʻ 5=7ʻ=ʻ 49ʻ =5(7 ʻ;ʻ8ʻ (ʻ 4 ʻ 884 ʻ78!ʻ =5(7 ʻ;(ʻ4ʻʻʻ1ʻ ʻ8 (ʻ2=5 4ʻ 4;45 ʻ= (ʻ4884ʻ49ʻ8 ʻ1=ʻ 67(1ʻ 884 ʻ78ʻ; 4?ʻ;ʻʻ N!ʻ ;7p5ʻ ʻ 5= (ʻ<74 ʻ5 ʻ O4 =?= =ʻ @=22=5ʻ=ʻ .3=?ʻ=ʻ 4ʻ=15ʻ:78ʻ ; ʻ@ = ʻ:78ʻ67ʻʻ (5 4ʻ 7 78 ʻʻ 1@4 ʻ71ʻ<2= 74 4!ʻ ʻ178ʻ67ʻʻ4=4@1ʻ141ʻ5ʻʻ48ʻ (ʻ& (578ʻ 8A;72=ʻ 3 ʻ8 ʻʻ84;75?=ʻ 4ʻ @3471ʻ@=4 (1ʻ57567(1ʻ49 ʻ ʻ884ʻ(884 7ʻʻ ʻ8 u 4248ʻ 48 (5 4ʻ ʻ;4 =54!B2C

1ʻ =ʻ4 ʻ(1ʻ 48 ʻ ʻ(ʻ67Aʻ?4ʻ (9= 71ʻ;72 7ʻ ʻ5ʻ O ʻ:4 5ʻ(ʻ78674ʻp ʻ=?ʻ4ʻ 1(54 4ʻ (2ʻ:ʻʻ ?4;2((ʻ!B,Cʻ .48ʻ (7 41ʻ @=8 72(ʻ 7ʻ E(Aʻʻ 4ʻ O(ʻ8ʻʻʻ ?4ʻ =1=5 = ʻ=ʻ (; =ʻ =@ʻ5ʻ=548ʻ 49ʻ 1(5ʻ<48 (ʻ Oʻ8 = ʻ84ʻ (5 ʻ67Aʻ ;71ʻ 2ʻ5 7(ʻ2ʻʻ:4 5ʻ;(ʻ ;=5 45ʻ45 ʻ(ʻʻ2278 4 7 !ʻ E(A78ʻ ʻ567ʻʻ =1=5 = ʻ7ʻ5ʻ 67=?ʻ (ʻ =2=1A=ʻ # ʻ(@@422(7 ʻ ʻ227?ʻ 4884ʻ 67=?ʻ O ʻ:4 5ʻʻ @ =@ ʻ(ʻ 2ʻ5 7(ʻ (@@422(5ʻ O# @ #ʻ @ =@4 E49<= ?ʻ((!ʻ O(ʻ8ʻ78ʻ(2ʻ 7?ʻ4884ʻʻ567ʻʻ 7ʻ4ʻ@ =9ʻ171 67=?ʻ O ʻ:4 5ʻʻ @ P@ ʻ(2ʻ5 7(ʻ (@@422(5ʻ # @ #ʻ } 67ʻʻ (1:=ʻ2ʻA;ʻ5=1ʻ5(ʻ@ʻ(54ʻ8(; (ʻ875 ʻ O# @ \#ʻ45ʻ1ʻ5ʻ3ʻ2ʻ (2ʻ7?ʻ48ʻ67(1ʻ 2 (4ʻ tj ʻ ʻ #ʻ ʻ - *ʻ 4ʻ # ʻ #ʻ ʻ! #ʻʻ ʻ #ʻ % ʻ - ʻSʻ 1=248ʻ 541@4ʻ 2(@ʻ?71ʻ ;=5 48 = 71ʻ ʻ5ʻ 7571ʻ (;4 71ʻ87@4ʻ6741ʻ 7ʻ?Aʻ8(; ʻ<p;ʻ(ʻ 1(; (4ʻ8=24:(5 !) O(5?ʻ 2=5 4ʻ (:ʻ 7 =674ʻ ?ʻ8 (:(5ʻ?7=ʻ 1=5 48ʻ67= 71ʻ7578ʻ (ʻ =2715(ʻ8(; (ʻʻ:ʻʻ@=8ʻ2(ʻ ?ʻ;4:(7ʻ ʻ 7ʻ <2(78ʻ2(@ʻ8ʻ8(;4 ʻ (2 4ʻ!# @ 7ʻ 2 78ʻ 2(@ʻ8ʻ 8(;4 ʻ (ʻ 67= 71ʻ @ ʻ1=ʻ =@@ʻ?71ʻ 1. 7 ʻ 4ʻ(ʻ 84;75?=ʻ=@@ʻ?71ʻ !# 7 ʻ ʻ?4 ʻ (4 75 !ʻ OR8ʻ <ʻ5ʻ ʻ17 (ʻ 48ʻ =@@ʻ?71ʻ78674ʻ 3=?ʻ4ʻ @ʻ @- ʻ(@@422(71 ʻ67=?ʻ2ʻ5 7(ʻO ʻ:4 5ʻ;(ʻ49@ ʻ1ʻʻK ((2ʻ8& 5ʻ8& 78 =?ʻ71!Q

227?ʻ4 ʻ(1ʻ@ A!4 ʻ 4ʻ54674=ʻ67=?ʻ 48ʻʻ?4ʻ 5872(ʻ # ʻ5(ʻ (ʻ=541ʻ1ʻ 4ʻʻ2278 d ʻ O ʻ:4 5ʻ(1ʻ (:ʻ (5 ʻ67ʻ6 ʻ:78ʻ (?ʻ8ʻ2ʻ5 7(ʻ 1(4 5(ʻ4=?41ʻ 1=?=ʻ (@@422((1ʻ<7ʻ884ʻ67=ʻ(ʻ 3 5ʻ;ʻ:78ʻ ʻ # ʻ 2ʻ:4 5ʻ;4ʻ @1 sʻ ʻ?674ʻ 7ʻ (ʻ75 ʻ (ʻ (9=ʻ67=?(1ʻ<(ʻ?ʻ;=ʻ?ʻ; =ʻM @1 ʻ ;7G78ʻ@= ʻ=ʻ 78674ʻ3=?ʻ4ʻ ʻ5ʻ 3 =5=ʻ .4 ʻ=ʻ 5 2u 71ʻ;=584 (ʻʻ5((7 !ʻB C

(1ʻ 4 =ʻ ʻ5ʻ O ʻ:4 5ʻAʻ 67ʻ:78?(1ʻ2=;ʻ8ʻ8(; ʻ8ʻ 7ʻ(@7?ʻ . $ #ʻ ʻ ʻ - ʻ@ =@4ʻ 41= ʻ(1ʻʻ5ʻ 8(; (ʻ4ʻ .4 ʻ(ʻ = ʻ5;ʻ(ʻ ?ʻ4 (ʻ 4 ʻ 4ʻ (@7?ʻ=@@ʻ?71ʻ ʻZ?w 4w84ʻ ?ʻ?ʻ8ʻ (; 71ʻ - ʻ 1 @ʻ - $ ʻ(ʻ 172 ʻ8ʻ 8A;72ʻ8ʻ 1= 4ʻ(5 ʻ67=ʻ(%ʻ ʻ5ʻ:78ʻ (; ʻ8ʻ;78 =?ʻ 78ʻ<7ʻ !

5ʻ;ʻ ʻ(4ʻ#ʻ2?(4584ʻ 4 (ʻ37G78ʻ ʻ58ʻ 7 ʻ=5ʻ8ʻ= ʻ =ʻ2(7ʻ ʻ 78674ʻ(?ʻ 41@= (ʻ] ʻ (2?ʻʻ67ʻʻ ʻ8 ʻ(8ʻ A ʻʻ87@4 8 ʻ ʻ=8(ʻ?7; 78ʻ=@ʻ5ʻ=54ʻ ʻ567ʻʻ172 ʻ8ʻ8A;72ʻ8ʻ ʻ549 ʻ5; 71ʻ1(58ʻ884ʻ 4ʻ !ʻ ʻ ʻ? ʻʻ 541!ʻ (@@422(71ʻ<7ʻ884ʻ67ʻ(ʻ4(ʻ5 4 ;4?45 4ʻ;2(=ʻ1ʻ (72=ʻ ʻ549 ʻ5; 71ʻ84 (:(7 Hʻ s7(8ʻʻ 4 =ʻ@ʻ(ʻʻ8 (ʻ %ʻ =ʻ?4ʻ 35ʻ;= 71ʻʻ 5ʻ:78ʻ84 (3?ʻ8ʻ*;= ʻ (4 ʻ 67ʻ:78ʻ371(5(ʻ8(; ʻ<ʻ;ʻ(ʻʻ5<(5?=ʻ ʻ 7ʻ; 414:(5&ʻ 7 Hʻ ʻ(142ʻʻ ʻ 5ʻ8ʻ ʻ8 4ʻ ?ʻ;4:(7ʻ Aʻ ʻ # ʻBʻ 5ʻ8ʻ ʻU?ANʻ 4ʻ?=178ʻ ʻ5ʻ 67(ʻ84 (:(7ʻ Kʻ ʻ @ ʻ # B =178ʻ 5ʻ8ʻ (; ʻ!)] ʻ (2?ʻʻ 4 :(ʻ875) ! % ʻ/ @ # ʻ (4&ʻ Kʻ5ʻAʻ7 :41 ʻ 67(1ʻ 2= ʻ=8(ʻ ʻ ʻ?(ʻ 4??ʻʻʻ2R78 41 ʻ ?ʻ 5(ʻ141= (7ʻ875ʻ1ʻ (;72(ʻ172 (ʻ ʻ5 4ʻ Kʻ67Aʻ@ ʻ171ʻ=;;7 ʻʻʻ 5ʻ8ʻ ʻ R?ʻ4ʻ 6741ʻ - $ ʻ?ʻ;75 ʻ 5=5ʻ67=?ʻ49 ʻ5 7p5=5ʻ@=88ʻ ʻ Kʻ84?ʻ67ʻ(ʻ (1ʻ8=22ʻ;ʻ4ʻ =5ʻ(248ʻ4ʻ8(5; Aʻ 17224 48ʻ ʻ 541ʻ87@@4 45 4ʻ1(4 ʻ(ʻ<= 45 ʻ4ʻ57 ʻ75 ʻ Kʻ7ʻ(ʻ 41@= 4%ʻ ʻ5ʻ8ʻB!ʻ4!ʻ (ʻ8A;72=ʻ67ʻ5 =Cʻ@4ʻ = ʻ(35= 71ʻ;_ ʻ;72(ʻ841@4ʻ1(584 ʻʻʻ549 ʻ5e&ʻ Kʻ 78ʻN 4ʻ;71ʻ (5 (ʻ2ʻ 5= 71ʻ8 748ʻ (5 =ʻ 41@= 4ʻ8ʻ ʻ3ʻ;ʻe=5871@ (ʻ57567(1ʻ ((45ʻ;ʻ5ʻ8ʻ49; ;&ʻ Kʻ 4 ʻ !Q) =8 4(ʻ 87:G75 ʻ) Kʻ 71ʻ 41@= 4ʻ !ʻ ʻ ʻ?Aʻ , ʻʻ =5ʻ(248ʻ 3ʻ;ʻ =1ʻ5=ʻ 1ʻ2ʻ (8&ʻ Kʻ845 ʻ84ʻ@8(ʻ , 1(ʻ49ʻ8 45 4ʻ@=8 ʻ 2= ʻ=871ʻ4G78ʻ (58ʻ 71ʻ (5 71ʻ75?4 ʻ ʻ5 ʻʻ841@4ʻ49 ʻ 4 75 !

B Cʻ ʻ;4 =ʻ?4ʻ (!ʻ 4= !ʻ ! ʻ;!ʻ !ʻ =5<4ʻ 884 !ʻ ʻ1= ?! Z, !
B,Cʻ ʻ884 !ʻ !ʻ?4ʻ 24ʻʻ !ʻ :7ʻ;= !ʻ O ʻ:!ʻ B Cʻ = 4 =1!ʻ92ʻ ʻ 8ʻʻ!

K 4 57 (4 7 (5=5 (794 75 ! 71 4 = 8'5 72'8 5=; ':78 8'5 72A @4 =52'5='5 ' 541 ;78 =?'(5
K 5=; 4 ' X8'1(=5'(2'8 72 '1 (2' 5'8 (@@=8' '8 '567' p '?(;78 =?" ' 541 '8 71 771 4
K ;5'1 5=9 '8 (;=5 ' ' !) 8';' ' 54 42'; = '549 '5; 78 4@4 ' 7 !!!!!!!!!!!! %' 4= 67=?(1 4
K = :';72(" 84@4 ' ' 5'8 '8 4 ;' ;7' 7 N '5 (674 5 1h8 5=5 '5 (N 4 8" <= 4 '5 (4 @ A871@84 '
K 67=? (414 (''8 67':78?(1 5=1'7567(1 (45 (71 ' '5(1 72 '=541 5=5 4 (?' ! 41
172'4 ':78 8=271 4 3'8 5=5 = '8 <2(7 84? <=22':78 (5 71 4 45 '2(: '8 541 2';4 4987<&
K <2(4! (' ('78 67'?(1 ?4 <(1'2'(.';:(?" =1' '8 84@41 (58'2'458 ' ' 5e1 ' '?A =4
K 87<<2(' 67" 8 ('1 X8'2'=58 ?41458 4884 ;A@' 4 e7';71674 =: '(:('587<<2(58 '5 4G78 =8 ?';4&
F :('?45 ~ '; 541 ' '?A 87<<2('!QB2C
&8 8 E8 #G 8 # 828G 8+ J8J# # E EF- ?&F + <#-J <F- # 8+#J8 -#-@
?4 '549 '5; 78 ' '?A <=;78 ' 54 @4 455'! !
a K ! K P ! ! ; K! ;
s7'? 5= d '8 4 = 78~ (;' A54 '5;45?'(145 '8~
4 5K 5 5KB P !K! & K &s + 9
=2 (578 4=?41 1=?= 41 49@2';(4 5' ' 7 ?';458 541 '8 71 '5 L1:=271 @' '7(2'8 ' '5"
(1= '8 67" '5 ' '?A @4; = 4 8'54 41'88'=54 (?4:('58 ' 7 71 <7'884!) %' 541@4 :=578 35'&
;= 71 87@4 8 ' '=548 (?37; '5 @('(1(545 48 @'= 42(1'@4 67(5 71 @= 7' =;;72 (4 ;=5(78 48!
142'78 48 4 = 41 <(4 " 67(1 ?4<45?4 4 4 <(28(48 4 @4 ';72=8(@'4 (8 67A 4 = " (7
<(28' (" 42 '5 1'5'1= (8845 ' 7 ! '1@2';48 45'1 5=8 ?4;4 4884 4 (@4 =8 < (7?'8 'o'1';=8 4 4&
' ('8 4 '(1 '5G7;75?A ;72 = 48 5=5 8=271 67'(1(5(48 %4 ' ('8 '8 67A ;=5 (3= ('57 ('5S
45'(;(22'?' (41 4 8=24 '(1 <(;'24 84 @4 84'@8(1 ?X<45?' 5=5 8=271 67'(145 '2" 7 @4 48
4 8" @'A < (7?'8 5=1'54 ?4;= 4 7 84? @= '88'171 67'(4= ('=5'8 4 '5 42'4;'78 371(5^ (7; = "
X8'8 (5 67" <(28(@(22'(4 4 4 ' (41 87: '2' (4 =<<78;(4 ;=5(5 7) = 41 '8 71 (: 37';'8
'58 ' 7 71 <7'884U'?';(045 ';" ;3'4@'8;=@" 7:2'5'458'8 ?4; 4 71 67= 541 #'2?(4''841 @
69 '59' 4 7 @ =<(571 (; 35';71 (:=24 ' ! B C ╤
5 '67" 67" U ! (';'" '5 O':4 5'(1 (? 45 7 8; '@84 4 '567'75 (? 45'884 @(72= (5 4 <48 7'5
(8;3(24 (55" , 4 '5 '@8(' '2'((8;3('8 '8 '78 (55' .; 41 O':4 5'A (= ('71 - #
67" 8=2415" ' 7 4= 41@= 4 (7'?'8 67= '8 (55= (;;45?" 8=24:((@7? 1=5 41 8(; 71 41= 'A
;424: (884!) =5 4 (5 4 =;42'571 '578 42 67'867p8 <7' (7; = %' A '@(' ^ 5=5 84142 2(7S
?(4 (: 884 '= '567') K 71 (@@ =@'567(4 8(;1 '88'1(?';" (8;3A 8=2415' (8 84?' (5'1=
K @=8 =2';" ' ' 375; ?'41 '5 8@4;'=8= 4 (71 ;(1@= '5 67= ;(@7 ?=2=2(''A 75' 4 8" 4 5'
K 4 .4 '(84?48 4 (= '(4 (;71 8=2415' (4 ;424: (4!!!!!!!!!!!!! =<4; 78 ' (674 (? 2=;71 . #
A; #@1 - ':" ;7 (87(<' " 45 = '(4 87: 5=; '8 '5' '71 = 71 (8;3(241 (;;45?' 67^ (;;458'=
K .4 41 = (1674 4G78 (72(1 7 :(' ! =5 ' ' 45'1 67=? 4(?41*5=; 4 =2415' (8 (@7? ?=&
K 2=2((8 '8 '78 45 '8 87@ 41(72 = . # '! 4! 5;A5'(41= 458'((@@422((454 ' ;424&
K : (5?(!(? 67(1 8(5;' (24 4 5=5 (5 71 = '78 .4 5" '5;'@48 =;4 48 4 4' ;72= 71 A&
K <4@ ' 84? 4 # ' ('8 ' (? 8(; '<';'(?4:4:(5 ;=5 45' 4! 4 4 4 '(1 84 4 '88'14 ;(&

B C] ' (2?" =@= ! O':! '8 ! , ;! ! - 4 J C '(?4 @! !
B C 7; 6 5=5! '5 55(H! O':! (: (55= (? U !25 ': '=' 'J = ! 4 (@7? E(! 5 '6T @! =~*!

K' ;:(7 '7 '= (548' ' 548 @4 '75' 4 8(8 .4 '=548 '22(' ''=; 4 49 '5 74 45 7 '4 '5722'' 2';4(' ' 5;1' 4& K' (;;45?4 4'5'8'' @ '78 41= '^' (' + - ' = 78 (; '<';'= 7 5 49 74 4 7 !Q) (?41' 3(:4 ' 49 '5= =;42''18 8(4;72= ,1=' ;! & ' =:78 884;72= 2 1=' ;! , ' 24 (578 (@'458 8 4;72= = ' ;! MI' ' 45' 578 8(4;72= = ' ;! Z ' (';'78 75'= ' ;=?41' 8'4472= ' ; ' ! & =5<4 (5 7 ' 67(4 ?4 (557'8 =1' ''8 4 5= 458':78 4 (2 '5458':78 ?'4 ('875 ' '5 55(2':78 2 =5! (? (55! - !B C

(674' 49 @ 84?'; (' =2'8 4 ' 5'8 454 ('=54 67(' 7'?T' O':4 5'' @ ^' =15':78] 45 ':78 ;;'& ?;5 (2':78 ;=58@';7'' 3(:4:(5 7 ' O':4 5'(' ' # ' (@@422(('48 ' 4 ' @ '171' =1=5 = '71' 67=? 3445';':78 ' (? 24 545 (= 57:'('5(' (5 ':78 =: '(:(=1=5 = '' #' (@@;22('=54 ?48' S 5((!)UO'5;' 4 ' = 5=1'5'8 O# y #' 42 O# @ #'] '(T' 45'1' O':4 5';4 48 ' =2 ' 75?4 O=14 '' @=22= O#' ' 4 '] '&G \54(1' =@@'?752 '5 8'(' '5= ' ' 7:'' 4 (@271 ' 4 (;7251 ' 4 ' 4178 @=22'5'' 8(; 71 ' 4 ' 6 78 (4 ;424:4 '17'5 ' 48 (5 4 (:=5=IB,C ' 41674 <27145] ((';(TT' =2'' 8(; 71 ' ;7G78 <=58 4 (' '5 u5 4 ?(' @=22'5'& 8(; = ' 7:'' 84 (:(_ ' (971' ?471 ' ;7' ' ;('45 4 O= 54 = ' O4; = ' 8(; '<';(4 (8874 78 4 (!B C) O# 8$\ ' O':4 5';4 48 ' =?'(;=8 ' '! 4 ' =2'8 4& =3 '=! O# @ -' 48 ' 8=2(4 3= =2= '71 ' 8' 4 5=1=5 8;'=234 ';71' =2'8! ' O# ' 4 ' ' O# ' 875 ' =2248 ;2'8 ' 67= 71' @27 '1'' 4 (5 ' 7'?';'8 2 (':78 ;=58@';7' ' '5 67':78 ' @=8 ' '5 =& ?7; (1' .42' '=541' 3 '8 '(''(1C =5(;3'' =5(8 4 '(' ;=5?'?4 75 ' 7 ' @(4 ' 49 55(2':78 %' (& 28 = 71' (?(55=8 Z M ' ' 8 8'8 ' ' , ' ' ' Z ' ' ' M ' ' 41674 49 2 =5'& 458':78 (? (55=8 Z M ' Z Z- ZM ' 49 ' 4 5(;3'' =?';4 =?24'(5= <=2! ' ;=2!2 ' 4 ' 49%=;(:7& 2(''8 2':4 5';'8 =;4 ' 75?4 @(4 ' = (1' 4 '=541' (' ;=224 =2'8 ' ?'; = ' O# ' '5 (= '14 ';4584 ' 7 674 14 ';75' ' (@@422((1' <7'884 !z='8&] 4'(; '(' =;4 ! ' 67^' 4; (1' .42' '=8(1' 8' 5'<';(' ' 4 ' O#\ ' =2 ' 67'(' ':'' (5 '67' 78 7'?71' =;'4 (8 671?(1' @ 4;'@7(' ;=24:(7 ! :' 4=& ?41' = ' '5P' <(:72(' ?4 O4 ;724 4 '] 4 :=54 ?4?7;45?(' '?4 7 !

2 (4 7'?';71' @ =@4 4 1=L' '5 (= = ;('4584 ' (' 72 = ' 4'' = ' '541' ' 5= (5 4 ' (@@422(J 7 ' 5 2';4] (((LI' ;'\ ' 67=? ((45 5'3'2 (2'7? 48 ' 67(1' O# @$ ' =2'8&;' ;7278!) :' 4=?41' ;72 7 =2'8 ' = ' '541' <(:7' ' 5=145 1=5 '8 8(; '' ?'; '' O# - ' @ =@4 = 34?(1 ' 7:'' 4 ' ;' ;7278 49& ' ' ' '5 45 '71' (9= ''1 ' (2'(674 7'?71' 48 ' '(' 8 7@4' ?^' 5'(5' 7?'5'8 ' 67^' '5 3VL?'' 4 ' =V5(22'' 48; '@ '=5':78 =; '' 1' (5 7 ! B C

27 4 '78'567' ' K' 1=5 41'] (1@'7'5 '5 ;= '('?';'' 42 ';4 O# @ B) ((' 4 = ' ;4 71' 48

B C' 41' (? (55! C' --Z' --M' !- ' Z ' Z,, ZZ! ' ' , ' ' Z, ' Z- ' Z' MZ' M Z ' N 5'8<(2! (? (55! -Z' !-- ' N %' %('8 ! 4 ' ' 4 5(;3 @&(88''7N 4 ' ' = 5(;2'' =7 '5! ! =5' ' 22(V2! ' (? (55! M! Nna' (:= ':! ' , ' @! M M) K' 5 = (' 8 (' = (' ;=2' 7 ' @=22= 78674 (? 454?71 ' ;= 5=145'= ' O#' E t ;! @! M,!-! 51 ' '5 49@2';(5?(' 5&8; '@ '=54 F' ! %% 6 ' O # B' #= 824(8 @! , ' 4 '] :7 2'' ! ' @! ! B C' A' 2'?4'5 <74 4 @ ' ' 4 ' # B' (:= ':! @!Z !-! A < # ' 4 (' ?4 ? 4'8 (; L2'8!Q' :! !2 ' @!- ! 4 (' K' + # # ' 67'' y (' 4 $ # B' %(P ?4 '5 ! !(! /! = ' ;! ' 4 ' @=22= '' ;3=2'(8 ' (? =5! ! '' d 5 B C' =5<4 ' #'5 ' 75'5'45 (' ;(1' ! 52:=2! =5?! Z ' <! ' @! --' 4 ' ! Z' @! ' 4 ' ,Z ' 4 ' =;=;m'' @=8;72! ?4 5& '6! O':! ':! ! , ' @! ,! J (' 5'?71' 48 ' '(' 72 = (@@4R2(5 7 ' K' M ' ' ' . B' ' 2=575'45 (' '';45'4'=& 75'! %=;(:! O':! =;4 M $ ' (:= 4 (@271' ! ' '5 4 8'(' ?48; ':' ' 4 '' (; = O':4 5458'' O # - ' 8'5''2'& 171' ! , ' @ ZZM! 65'' K' @=22= = '8 2'51=O'8 <'2'(8 4 !(' 4 ' '@84 =2!Q' O74 ' (? ' ! @! M!) Q' O(1' 87:' = '8 ! \ ' 5=1'54 ;72 (8!JI =;3('] 4= ! (; ! '! ' ;! &JJ! =24 (' 4 ' ;42= 41' 7 ' =;(7' L '!Q' 4'?45 L5 (! , ' 4! !) < ' (L' ! '' '\ i * ' `` ' O4 =?= ! !< ' ;! =n O \ * ~ ' ;' ' (8 @ '4;'@7(7 z'?'^ ' 6=T 4 ' ' ~ ' 7 ' '5 58; '@ '=5':78 (@7?] 7 4 7'5! 254 478 ' 4 ' @ ' O':4 5= 71' 7 ' '5 %=;(:! =;4 ' 4 ' 55(2! 2 ! (? (55!Z Z' - ' %' (!22&p- ' 4 ' =?49 =V458'8 \ ' <=2! -! ' '5! @4572 !

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'8 (ʼ 4 :(ʼ 5'3'2ʼ (2'7?ʼ '5?';(4ʼ 67(1ʼ =2'8ʼ 1=541&ʼ 4ʼ ':'ʼ'5ʼ 45 7 (ʼ <7'884ʼ 2 (4ʼ 7'?';71ʼ
'5ʼ;=224ʼ 67" 78674ʼ3=?'4ʼ?';' 7ʼ 0 ʼ<) v4674ʼ(2' 4ʼ'5 4 @ 4 (5?71ʼ49'8 '1=ʼ5=145ʼ 1=5&
'8ʼ;424:4 '1" # ʼ'5ʼ] (22'(ʼ?4ʼ 67=ʼ !ʼ A8(ʼ'567' ʼKʼ 7'?Aʼ;4 =ʼ(55" 41@= 4ʼ'5ʼ<'5':78ʼ
Kʼ (\ p /'p1ʼ;=58'?75ʼ'5ʼ2=;= ;=584; (4!Qʼ B Cʼ %=9ʼ 45' 5ʼ 2':4 5';(ʼ # ʼ 8(; (ʼ 48 ʼ 84674ʼ (;ʼ
0#) 0'5;ʼ =@@'?71ʼ 78ʼ 0# @ # ʼ '5ʼ 0':4 5'(ʼ 7:" 7'?71ʼ <u2'8ʼ (;4ʼ 49 'ʼ' 8A; '2=ʼ
67'5 =ʼ 4 (ʼ =2'8ʼ;=22'8ʼ 4ʼ '?41ʼ(;ʼ # @ # ʼ 7ʼ 49ʼ'@8=ʼ5=1'54ʼ 1(5'<48 71ʼ 48 !ʼ :" 84 (&
:(7ʼ (5 '67' 78ʼ (971ʼ8(; 71 ʼ 7ʼ@(4ʼ49ʼ%' (ʼ(5 '67(ʼ !ʼ (';'" 67(1ʼ Kʼ49ʼ ':78! ʼ 2'&
Aʼ:; 5';'8ʼ'5 4ʼ84ʼ;=22('8ʼ4ʼ@(' (ʼ ('5=ʼ@('1ʼ 0':4 5';=ʼ4=67=ʼ@4 4 78 =ʼ84 1=54ʼ 4ʼ@ Aʼ
K 5'1'(ʼ (5 '67' (4ʼ '1@454 (:'24ʼ ;=58; '@ '8 Qʼ ;?'?'ʼ =2 (578!) 2=5 48ʼ8(; "ʼ'5ʼ67':78ʼ.4 72"
0':4 5'Aʼ'5(7 7 (:(5 7 ʼ4=?41ʼ8(; =ʼ5=1'54ʼ # ʼ 78674ʼ(?ʼ5=8 (ʼ41@= (ʼ?48' 5("4 (5 ʼ 7ʼ
@. # -ʼ # @1# ʼ !# @ # ʼ t;!ʼ 2'78ʼ.'=58ʼ 8(;4ʼ 4=?41ʼ 5=1'54ʼ (@@422(:(7ʼ'5ʼ
= (=5'(ʼ 7ʼ@(4ʼ49ʼ4(?41ʼ !ʼ (';'" %' (ʼ 2'5?4ʼ 3A;ʼ 4 :(ʼ?48; '@8') Kʼ (7'ʼ !ʼ (';'78ʼ
Kʼ ;;248'(1ʼ A?'2';(4ʼ'5ʼ 4 '=54ʼ 4ʼ'5ʼ2=;=ʼ(1A5'88'1=ʼ 67" 49ʼ8=2" (=A5' (4ʼ4ʼ8' 7ʼ]5(w&(w
Kʼ'!ʼ4!ʼ =2('71ʼ .4 '=5'8ʼ Aʼ5=1'5(7 !Q) ?41ʼ(7; =ʼ(2'71ʼ 1=5 4 (ʼ 8(; 71ʼ (2':" '5?';(" :'8ʼ
4 :'8) Kʼ 5ʼ 78 (2" .4 '=54ʼ =1=5'Aʼ 48'= _1ʼ 78 (2'71 ʼ 14 (78ʼ 48ʼ 4' 45?Aʼ 4;248'Aʼ
Kʼ2=;71ʼ'5ʼ67=?(1ʼ ʼ67" @ ='5?4ʼ5=1'5'8ʼ787 @('=54 (ʼ(:ʼ4=ʼ?4871458ʼ!# @ # ʼ'!ʼ4!ʼ =2&
Kʼ2'8ʼ (';'" 575;7@(7 ʼ %" ʼ!# @0# ʼ 42ʼ] p(Np&!'p b<ʼ 67=ʼ (7?4:(ʼ(5 '67' 78 Cʼ 7:" '5ʼ ` # @
Kʼ ʼ $ #ʼM % ʼ67" (@'8ʼ ! (';'" = (7 !ʼ 4?ʼ 'ʼ ʼ 4 :3(2278ʼ4"84ʼ:@@=87' !Q

5=8;75ʼ?=; " @=22'541ʼ(:ʼ 0= 54 =ʼ 4ʼ (2''8ʼ (5 '67'88'1'8ʼ?'; 71ʼ 0#' Z ʼ ʼ/ # sʼ (ʼ
67A5(1ʼ8'ʼ3(71ʼ =;7'3ʼ4 ' =ʼ' 5= (5 !ʼ 2' 4ʼ45'1ʼ 49@ ;(5 7ʼ(ʼ .71=ʼ '5ʼ5= '8ʼ(?ʼ%' '#71ʼ
4ʼ '?'71ʼ (2' 4ʼ(ʼ (; =:'=ʼ '58V= 3=ʼ]4854 =ʼ (;;'=2('=ʼ t;!ʼ :ʼ=15':78ʼ<(:72=84ʼ 4ʼ
'?';724!) 0(8ʼ (7241ʼ =;48ʼ2'5 7Aʼ 0':4 5';Aʼ=@4ʼ G(1ʼ@2(54ʼ 49@2';((8ʼ4884ʼ;=5<'?=ʼ 75?4ʼ @(4ʼ
=2'8ʼ(5 '67'88'171ʼ5=145ʼ<7'884ʼ 0# ʼ (ʼ 67(ʼ =;4ʼ3(7?ʼ@ =;72ʼ(:4884ʼ =;41ʼ # ʼ 5=5ʼ 8=271ʼ
3(; 4578ʼ?'; (ʼ?41=58 (5 ʼ 471ʼ4ʼ '?'78ʼ<(4 7 !ʼ 8ʼ45'1'?4ʼ 4(ʼ # ʼ8; ':458ʼ '5ʼ (8'8ʼ
'567'ʼ Kʼ 0# ʼ?'94 4ʼ@ '= 48!Q

L (1'?'8ʼ<= 1(ʼ @=22'541ʼ(ʼ 4 (458':78ʼ;72 71ʼ # ʼ82 4ʼ / 8" "ʼ?'; 71ʼ<7'884ʼ5(S
(" (78(5'(8ʼ ! ʼ;! *ʼ@!ʼ B`!) 67" 4ʼ'@871ʼ5=145ʼ '# ʼ 4ʼ<= 1(ʼ ;=5';(ʼ <2(11A*8'S
1'2'8ʼ 4ʼ # # ʼ 8' 4ʼ(471ʼ (; = 71ʼ 0':4 5'Aʼ <= 1(ʼ 4(?4 (ʼ 4(5?4 " = ' '54 (ʼ@2(54ʼ
?41=58 (5 !ʼ 4ʼ2(@'?4ʼ 1'845=ʼ =2'8ʼ8'172(; =ʼ?'; =ʼ y- $ ʼ 04 =?'(578ʼ'567'ʼ Kʼ "ʼ#h "
Aʼ ʼ Y #ʼ ʼ " "ʼN% ʼ 9wU |<ʼ t;!ʼ 471ʼ =241ʼ 1(9'14ʼ 5?' 45Aʼ*
Kʼ;=275 ʼ 3 3';7'5ʼ2'5 7(ʼ 2((:(271ʼ =;' (5 48ʼ2(@'8ʼ48ʼ1(9'178ʼ ʼ ʼ# ʼ 4ʼ 8458'1ʼ
Kʼ<(8 ' '(78ʼ(?ʼ 1 - # Bʼ B,C) G78?41ʼ<' 7 Aʼ4 (5 ʼ2(@'?48ʼ 8(; 'ʼ =24=ʼ75; 'ʼ 67=8ʼ L " 87:ʼ
5=1'54ʼ 'ʼ (?= (:(5 ʼ 67=?ʼ5=145ʼ= ' '541ʼ (9'884ʼ(ʼ2(@'?4ʼ ʼ 6741ʼ (;=:78ʼ ('(;3(ʼ
Kʼ4 49'ʼ'5ʼ ' 7271 ʼ<75?458ʼ=2471ʼ?487@4 Qʼ4 7?' 4ʼ?4R5=58 (5 ʼ ;(2' 4ʼ4ʼ =;3(!B C

(1ʼ 4 =ʼ4 '(1ʼ8"@=5(178ʼ 1= 41ʼ'8 71ʼ2(@'?48ʼ 7?48ʼ4 4; =8ʼ75 45?" (;ʼ(?= (5?'ʼ@= 7'884ʼ(ʼ
] A;'8ʼ5(7 (ʼ'@8(ʼ?'; (5 4ʼ(:8674ʼ722(ʼ 4 4 71ʼ (?' '=54ʼ49;= ' (5ʼ(?' 54ʼ (145ʼ 4??45?(ʼ4884

B Cʼ A8(ʼ?4ʼ 42!ʼ] (2!ʼ ! ʼ B,Cʼ%'?4ʼ 55(2!ʼ 2 !ʼ(?ʼ(55!ʼ Z,ʼw (83(1!ʼ@!ʼ- !
B Cʼ 784:!ʼ A@!ʼ ! ʼ;!ʼM!ʼ ;(2' 4ʼ (?ʼ 784:!ʼ 3 =5!ʼ(55!ʼ, ʼ@ʼ M ʼ 42ʼ, !ʼ =;3(!ʼ 3(5((5ʼ !, ʼ;!ʼ,ʼ4?!ʼ
ʼ@!ʼZ -!

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('=ˢ 5= ('5'8ˢ ' 8ˢ 67=?ˢ A674ˢ (;ˢ ˢ- $ ˢOS 8 ˢ@4 4 '571ˢ 4ˢ (?ˢ L =8ˢ 3 5';'=8674ˢ 4<4S 45?71ˢ 4884ˢ ?=; "<(45 7 !B2Cˢ ˢ@(" 4 '(1ˢ 8" ;72 71ˢ O':4 5: 71ˢ '5ˢ '@8(ˢ O':4 5'(ˢ (:ˢ = ' '54ˢ 49;= ' (7'5ˢ <7'884ˢ ;=5;4?4 4178ˢ (?37;ˢ 4??45?(ˢ 4884ˢ ('=ˢ ;7ˢ 5=1'5(ˢ 4 5h;72(ˢ 4= 7'5ˢ 4ˢ ?' 5' (7 (ˢ 4<ˢ =1548ˢ ' 78ˢ 8(; " 8'5ˢ @2(54ˢ 3 5';''ˢ 4ˢ 5=5ˢ (2'75?4ˢ 67(1ˢ 49ˢ L '(ˢ 4ˢ q L@ =ˢ ?4?7;45?'!

#(@ wˢ <48 71ˢ @=22'5'8ˢ '5 45' 7ˢ (@7?ˢ (;4?41=5'=8 !ˢ 4ˢ L 45A=8ˢ eˢ @=22=ˢ / 1" ˢ?';' 7ˢ (ˢ (22'1(;3=ˢ '5ˢ OL15=ˢ'5ˢ @=22'541!ˢ ˢ5=5ˢ (ˢ ` ˢ7ˢ 72ˢ 78ˢ 4G78?41ˢ ;3=2'(8 48ˢ ;71ˢ 572278ˢ (2'8ˢ (48ˢ 7567(1ˢ 49 ' 4 ' ˢ 84?ˢ (ˢ 5=1'5":78ˢ (5 '67'88'1'8ˢ O# ˢ ˢ # ˢ 67':78ˢ ˢ 4ˢ =2'8ˢ ;72 78ˢ 78674ˢ 3=?'4ˢ (:ˢ O':41'8ˢ ?48' 5(5 7 !B,C) @=22'541ˢ 4ˢ (;;371ˢ 5=5ˢ (2'=8ˢ <7'884ˢ 65('5ˢ =241ˢ ;4 71ˢ 48ˢ 49ˢ = @3L '=ˢ 4ˢ <5=:'=ˢ 67" ('75ˢ @=22'541ˢ 4884ˢ ˢ'5ˢ; 2=ˢ 4ˢ ':4 71ˢ '5ˢ 4 '8ˢ 75?4ˢ =2ˢ %' '2'=ˢ ':4ˢ ?';' 7 !ˢ 67" (;;371ˢ 8' 4ˢ ':4 71ˢ 475?41ˢ <7'884ˢ (;ˢ 4 ;7 '7 (!ˢ 4ˢ O4 ;724'5ˢ 845 45 '*(ˢ 4 (ˢ =';= 71ˢ 48 4ˢ 454;(ˢ 4ˢ (;;378ˢ 4ˢ 4 ;7 '78ˢ 4 (5ˢ '" / 8ˢ 7ˢ @ =?'ˢ @=22=5'" .3=?'" ;3=2'(8 48ˢ (1ˢ 4 =ˢ ':4 " ('8ˢ ;72 71ˢ 3h ˢ! ˢ '!4!ˢ 11=&ˢ 5' (8ˢ - ˢ # ˢ 1(5=ˢ (@@((7ˢ <;424: ((8ˢ <7'884ˢ 5((ˢ '=5L8'78ˢ 4 '4 4 48ˢ 4ˢ (:ˢ (5 '& 6!7'8ˢ @ =?' 71ˢ 48ˢ (;;371ˢ ;71ˢ = '8ˢ 11=5'8ˢ 41@271ˢ ;=5?4 4ˢ 1'22(1ˢ 4" 1('541ˢ '5 7&ˢ 2'88;ˢ 4 75" = ?'5(884ˢ 7ˢ ;2((ˢ ' '5' ('8ˢ 8L1:=2(ˢ 5'8ˢ 541@4ˢ 4ˢ =58ˢ =2'8ˢ 4ˢ 4178ˢ @4 @4 7=ˢ ;7' 7ˢ 84 (45 7ˢ Nˢ 5=5ˢ 67=?ˢ ' 541ˢ 471ˢ 4884ˢ ;4584 4ˢ 84?ˢ 67=?ˢ 4884ˢ ˢ ˢ7ˢ 8; ':'ˢ = &ˢ @3L '78ˢ (ˢ ¦8='<' %ˢ ˢ ˢ==@ 8 " "# "ˢ ")*+ˢ @='Gˢ ,ˢ "# sˢ , # "BNga '2'78ˢ (2'458ˢ ?4ˢ 41@2=ˢ = '8ˢ ! ˢ '567') Kˢ 5 48 '5; (ˢ =;'8ˢ 84 (5ˢ (2 ('(ˢ <2(11AGˢ 84?ˢ 5722(ˢ 4<<' '48ˢ 8'172(; (4ˢ 5= (ˢ 4= 71!Q) %(^ˢ .=1(5= 71ˢ ?=; '88'178ˢ Kˢ (5 '6748ˢ .=1(5=8ˢ @27867((ˢ (55=8 Z ˢ 8'54ˢ 8'172(; =ˢ X=8ˢ ;=27'884 Qˢ (<<' ((!B C

O'7;ˢ 7ˢ '5 4 42 (8ˢ 5722(ˢ X (5ˢ (3ˢ = ' '54 '17 (; (ˢ '5ˢ O':4 5'(ˢ ' (ˢ 5722(ˢ '5ˢ 41@2'8ˢ (:4' = 71ˢ '5ˢ 8'(ˢ 7 " o4674ˢ (@7?ˢ L =8ˢ (2'=8674ˢ ! ˢ 3(1" @=8 4 =8ˢ '84:(5 7 ˢ 7ˢ 7;'(578ˢ (<<' 1d ˢ o4674ˢ (@7?ˢ %' '548ˢ %48 (24867Aˢ 4(?41ˢ L8 4 '(ˢ 3(:74 4ˢ (:ˢ 2:(5'8ˢ 67" 4(ˢ (ˢ =G(5'8ˢ q54(ˢ 7;4ˢ 4;4@4 75 !ˢ + - ˢ 45'1ˢ 4=8ˢ %' '2'" (:4' =8ˢ <7'884ˢ '5?';(5ˢ 5=5ˢ 8=271ˢ 67Aˢ 87@ (ˢ 4 72'ˢ 84?ˢ 4 '(1ˢ 78ˢ 1(1=ˢ (@7?ˢ] 7p4 71ˢ '5ˢ 67=ˢ ˢ,H ' + ˢ8 @/ %ˢ % ˢ (@@42&ˢ 2(5 7 !) O74ˢ <(;'75ˢ 67Aˢ ?4ˢ 1: =ˢ (1= 3 (;71ˢ 5872(ˢ 4<4 ˢ 78 (3'78ˢ '5ˢ ;3=2''8ˢ (?ˢ '=5L&ˢ 8'71ˢ 67Aˢ @2(54ˢ '5?';(5ˢ (:4' = 71ˢ L8 4 '((:ˢ '45 4ˢ '5ˢ ;;'?45 41ˢ ?42((ˢ <7'884!ˢ Kˢ 1: 78ˢ Kˢ '5pG7' * 3 (;'(ˢ 5872(ˢ 48ˢ # ˢ/ $ # ˢ #(:4' " (7 41ˢ 4= 71ˢ 5=145ˢ 48ˢ ':'?41ˢ ;=2e:(&ˢ Kˢ 7ˢ 4ˢ 4 ;7 '78ˢ 6741ˢ $# ˢ (48ˢ (@@422(5 ˢ 7ˢ 8; '@ 71ˢ 49 (ˢ '5ˢ 35';'8 Q) 5 422' ''ˢ 4@2'(5" 35';(ˢ '5ˢ 6 = 71ˢ @' =14ˢ 67Aˢ 49 (ˢ 4(?41ˢ ?4ˢ '5: =ˢ 24 75 7ˢ Kˢ 1 % sˢ # sˢ %ˢ yˢ Kˢ % "ˢ ˢ %%< " 3 % " ' "ˢ 23 %sˢ 1: 78ˢ 1 ˢ #ˢ (:4' = 71ˢ 4ˢ 4 ;7 ''ˢ 6741!ˢ Aˢ 1: 71ˢ "ˢ $#@! ˢ 4(" (@@422(5 Qˢ (:=ˢ ?4''8?41ˢ (:4' '8ˢ (458ˢ '567'ˢ Kˢ 4=8ˢ 45'884ˢ Kˢ '5ˢ (1=& 3 (;45ˢ 67Aˢ (5 4ˢ 42' (ˢ ?';4:(7 Nˢ 4= 71ˢ (; '=548ˢ 4884ˢ 1L8 ';(ˢ 1(9'14ˢ '5ˢ 415=ˢ 4ˢ Kˢ 1: =ˢ ;72 =8ˢ 84?ˢ ˢ ˢ #$ ˢ # 3 sˢ 5=1'5(ˢ 4= 71ˢ 875ˢ L8 ';(!QB-C

B Cˢ =7 1=5 !ˢ .4<249!ˢ ' !ˢ 87ˢ 248ˢ O'8ˢ ?48ˢ 5;'458ˢ !,ˢ ˢ ˢ ;ˢ, !ˢ (2;=54ˢ '884 ˢ ?4ˢ (42L8'8ˢ 41!ˢ ?4ˢ ˢ ;(?ˢ ?48ˢ 2=84ˢ !ˢ ˢ@!- !ˢ (4 (ˢ ?4ˢ :42'8;'8ˢ 4ˢ (83(1ˢ ':!
B,Cˢ %=;41ˢ .¥@ 8'wˢ 49@2';(4ˢ ;=5(7ˢ E4884 '5ˢ (?ˢ O4 =?= !ˢ !Zˢ 6] ˢ@!ˢ ˢ4ˢ 5= ! Zˢ ':
B Cˢ = @3L !ˢ #%ˢ <' \ˢ C <)ˢ &,!ˢ !ˢ !ˢ '
B Cˢ E'5m421(5ˢ = '(ˢ ?4224ˢ " ! ˢ;! ˢ ˢ , ! ,ˢ @!2-B<ˢ B-Cˢ (:=ˢ !ˢ ,ˢ @!Z, ˢ !

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' 2'78 '4 U*l48 (2'71 54 8; ':') K 5'8 '549 '5; 78 4' G@2= 84 (7 '5 '22=I&U <<' '41 5722(1 %48 (54; 5'8 :(:42!Q) ?;2' (@@422(<=;=8 ' = 5=5 (8@';'45?=8 B2C (71 (49 2:(& 2=5 ('5 _ :41 '5 ;; =8 2:('5 (=G(B,C 4 4=?41 1=?= 67= O':4 5" ; 4?4:(5< @4'' 7 71 1S @4 '71 O':4 5';71 8" (''<4 4 7 2(@'8 8(;4 M @1 4 8" 49 '5 74 4 7 5'8 8(;4 #'2?('A 8'; 3 G* " 4 4 48 ; 4?4:(5 =G((@4 ' 7 (1 8" (22(?'71 @4 ?4 45 (7 5'8 8(;4 %48 A @4 ' 4 !B C (?41 3(:4 %' '2'78 67" @ '4 ; 4('5 ;=5?' '=5':78 @(;'8 '5 4 ('3=8 4 =G(578 4;4584 67=? =G(5= 71 8(; (4;'@; 45 7 !B C

= '8 4 (@ A 4 4('5 4 O':4 5=8 7 8" <= 4 5'8 8(;4 49;7 '45?78 4884 '? 5=5 49 (2'= ' 54 67(1 49 8'2';4 =" 49 8=2'8 (?''8 42 1 (4 '(67(?(1 ('?(4 X: (2(42';4 45 6741 @ ='5?4 D- (@@422(:(5 7 4 4 = '@84 (?=248;458 8 @4 '?' ?71 '5 *%J' '2'(! =3(55'8 @ @72 '8 (5 '67= 1= 4 ' 548 8(; =8 (;;45?4 4 (8874 " 4 (5 ! 67" ;75?45" 1= 41 '5 4 %48 (248 '5 (27'884 8; ':' 48 78) K =8 4 ((:72(1 <42';'8 1 (4 'A (1?'7 4 4: (4 67=78674 49;4@ 71 ' 541 ; ': = K A54= %' = '5 q ?4'5 <4 4 !&Q) ?41 1=8 49 O':4 5'('5 2:(5'(1 8'172 ;7 (2(@'?4 8(; = M @1 '5 =?7; =8 <7' 8(4;72= 849 = 7 ;= " =5 ';=2A O':4 5';A = ' '5'8 48 (5 7 !B-C 4?' 71 '5 4 .=1 (5=8 <7' (22(?'71 =G(571 (: 2L884 <7 = (:$(71 @=8 4(48 ' 7 71 42 4;7@4 (71 .=1 A '5 % ` 84 (' 54; 722" ' = 54 =5 '<'; " 67'?41 (9'1= '?; 4 '227? 2';' 7 (<7'884 Nka 4 ;71 ''8 + - (1= 3 (;71 4;45845?71 ! 4; 1' 71 '567' O4L54 8'67'?41 ;=1 175'8 7 (674 <7' .42' '= 7 (674 4 78 (4 141= (:'2'8 7 " ?41=58 (5 # ##1 4Ca 4 ' " ?=; '88' (" # 4 a . NQa < # 4U a 4 + ? 1 4 a

BU7A 3(; 4578 ?'4 (875 ?4 =;':78 O# # 67':78 =1=5 = '71 (; 71 5872 4 (; A ?48' 5(:(7 ;=5<' 1 (5 7 (4 1'5('=54 w 42 =' 75?4 = 71 5=145] '<<(&V ! 42] w &=' ! c,# 45'1 5'3'2 (2G7? O':4 5';4 8' 5'<';(" 67(1 5'8 4 '458 7 49 %=;(:72(''8 O':4 5';'8 I '(5' 23VL?'' 4 I 24 '" 1(5'<48 71 48 !) 67" 42?4578 ?4 ''8 L ''8 (458 K s7=? =& A 241 4 ''578 '567G '? '5 O4: A= 48 6# 4 541 4?(1 4 =241 ?X5= d !Q O'5; =9 O':4 & 5';(6#@ (2(1(5? ('!4! ' 5'8 178;(! 6#@ ;2'@8'8 '!4 ' 5'8 5' 4?=! 6#@ 7 $ @ # ;2'@8'8 =2'8 6#@ - ('= 5 2';=((L4 (: 6# 5'8 4 - 42 E - ;= (1 <(;'4 *67'(72 7 (? ' 5;'5 4 8== (:(5 ! 5 =1=5 = '= (@L '= (5A] A;'A 41@271 49 '' ?';(71 4= 6# 7 " 5((" '=5L8'78 4 '4 4 48 ! ! O'5; # @=22= 4 # ;7G78 <'& 2'71 <7'884 = =(8 41 (:72(71 ;3' 4; " <'594 75 ! =2'8 45'1 ' 5'8674 ;=245?" ' 78 ;7" 4'S 8 4 4 (:' " 8' 4 O $# 78674 (? 375; ?'41 =:846775 7 4 = (= =(8 '8 3'8 = '(4 @ A;4@ ((? 45 ' '(4 49= ';(4884 48 (7 (3'(8! 2 " =(;3" <'2'71 4884 ;=5845 (2'" p48 ('&

B C '? *('= ! 18 42=?! ! @!=C= 4 5= !':! ; (8 ! ! 4 @(88'1! B,C 2:! ! @! , 4 5= !':!
B C :! @! Z ; M 4 (1= @3! - 4 '8 ! ! ! =5<4 !' ;348=2! ! ! :=5?! Z Z , !
B C '''42?! !, %! ,M t 4! ;71 9;7 87 '9 4?' ';5'8 O;L54 '@8'84 ! , @! M t ;! 7:" ?4 45(':58 (22(S ?'= 4 %48 (! 41 %(P #4 ! O71! !, (; =:! ''' ; '=5G*8! O(2! Z ' !] ! =1! Z!
B-C (4@:4 8=5 '' '=?! = 34 O'8 =<] ! ' ! t ;! 7:2'5 J ~Z @! Z !
B C '?! (8 ! %' , t =! ('<4"] 4 (! (5 ! @!, 5!Z ! U
B C O'8 ?4 I ;(?! ?48 58; ! ! ,Z! B C .4;:4 ;348 87 248 G8 4 48 @! , !
BMC E '84 =5 34 <' 8 53(:' (5 8 =< 7 =@4 @! !
<2 2 GI 5=2! %! @! t ; <22C 5 '6! 9@2!

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'1'1ˢ<'2'71ˢ 3(1''5=55722ˢ; % ˢ 4ˢ4G78ˢ ('(ˢ5=(ˢ1'578ˢ67(1ˢ?4ˢA (4ˢ2' ' (7 !ˢ =145ˢ 67=?ˢ('54 ˢ 4 8Aˢ ;71ˢ ~ # ˢ '!ˢ4!ˢ(1';71ˢ' 5'8ˢ (@@422(5 ˢ 4 ˢ] A4ˢ5=145ˢ4G78ˢ?4?7;75ˢ(ˢ 8 Nˢ 88 'ˢ ' 71ˢ8'?78!ˢ ?4=ˢ 4 75ˢ48 ˢ =15'(ˢ '45 (2'71ˢA674ˢ(;ˢ ;;'?45 (2'71ˢ 2'5';= 71ˢ 8L8 41((ˢ(5 '67'88'1(ˢ(:ˢ 6#ˢ 2'(2?4= 71ˢ4ˢ(ˢ (:L2=5';'8ˢ ˢ4ˢ $ # # ˢ847ˢ O $# # ˢ ' 5':78ˢ= ' '541ˢ3(:7'884ˢ7ˢ4ˢ (4 4ˢ ; '@ 7 Aˢ 48 (5 7 T

5 '67(1ˢ 58; '@ '=541ˢ; "ˢ # ˢ49ˢ1(1= 4ˢ 3(2;4?=54584ˢ4?'?'ˢ 3'8372278ˢ67(1ˢ@ '1=ˢ E 34424 78ˢ4ˢ@=8 4(ˢ @=5ˢ 58; '@ '=5'8ˢ 84587 (ˢ' 5= (5 48ˢ @(7;'8ˢ17 ('8ˢ145?=84ˢ 4?'?4 4!B2Cˢ G78?41ˢ14 ('5'ˢ ';4 =ˢ'5ˢ%4 41ˢ7:"ˢ '567'ˢ = 41ˢ6# ˢ ˢ'5ˢ =5 ˢ= 4ˢ4ˢ(5 78 ''8ˢ4ˢ4ˢ75& ?45ˢ4884ˢ = 41ˢ 1@4 (= 41ˢ6741ˢ] A4ˢ = 41ˢ6# ˢ(@@422(5 !ˢ (ˢ(@@422(7'5ˢ<7'884ˢ8; ':75ˢ 49';= (@3ˢ(:ˢ8=4G 45 78ˢ75?4ˢ Y"1 "ˢ 67'(ˢ 45 7 (ˢ5(' (5 ':78ˢ@ =8@4 71ˢ'1 1' 4 ; !) 2'ˢ (:ˢ=@=ˢ 4 1'578ˢ 67'(ˢ <'5'71ˢ @ A848ˢ 4884 ˢ4ˢ 3=;ˢ 5=1'54ˢ 41@27'5ˢ 3(:7'884ˢ (?ˢ =8@3= 71!ˢ 3'8372278ˢ(:ˢ3'8ˢ=15':78ˢ?'8845 ' ˢ4ˢ6# ˢ'5 4 @ 4 (7 ˢ (:4 :41!ˢ =ˢ4(5?4 (ˢ1'3ˢ2';45 '(1ˢ '5?';(=8ˢ 5'3'2ˢ (2'7?ˢ 8' 5'<';(4ˢ (884 =ˢ 67(1ˢ; % #ˢ ˢ 42ˢ (?4<'8!ˢ '1A ˢ 45'1ˢ5(7 Aˢ (ˢ 4 Aˢ(8@4; 7ˢ45(' (4ˢ '145 48ˢ 41@2(ˢ' 5':78ˢ8(; '8ˢ27;45 '(ˢ'5ˢ@ A;'@7'8ˢ =1 =5 = ''8ˢ;=5?'& ?4 4ˢ67Aˢ =2ˢ7 ˢ@27 '171ˢ?';((ˢ<@4 4ˢ (''8ˢ67'?41ˢ5=1'5':78ˢ84?ˢ(5 '67'8ˢ4ˢ 3(2?(';'8 l67Aˢ ;71ˢ] A;'8ˢ' 5= Aˢ4ˢ49= ';Aˢ<7'8845 ˢ<(:72'8ˢ4ˢ1L8 4 ''8ˢ'5 =27 4ˢ;424: (:(5 7 ˢ' (ˢ (=45ˢ7ˢ'5ˢ '@8'8ˢ<(:72'8ˢ(5 '67(ˢ= ' =ˢ2(4'> !ˢ (4ˢ(7 41ˢ8' '<';('=ˢ =;'8ˢ6# ˢ'5ˢ =;':78ˢw'\<ˢ' 5'8ˢ .7 # ˢ 8@4;7271ˢ27;458ˢ'5ˢ =;4ˢ ('5(ˢ6# ˢ4 '7ˢ<(:72(ˢ '=5'Jˢ<'22ˢ = '8ˢ 4@ 75'ˢ4ˢ 4 ;7 'Hˢ67ˢ'5 4ˢ 8 (ˢ 42(78ˢ'5ˢ'@8=ˢ;' ;72=ˢA67'5=; (2ˢ@ =@4ˢ (7 71ˢ8' 78ˢ48 ˢ4ˢ45841ˢ3(:4 4ˢ?';' 7ˢ8 422(71ˢ <72 = 4ˢ 4 ':'241ˢ67ˢ8ˢ<72 4 ˢ84 45' (4 (ˢ8ˢ=:8;7 (7 ˢ 41@48 (41ˢ?45= (4ˢ(5 '67ˢ5(' (=& 48ˢ (?'?4 4!ˢ O'5;ˢ =;48ˢ # ˢ # ˢ4ˢ! # #) = 41ˢ4884ˢ =241ˢ?41=58 ('ˢ (; =:'=8ˢB,Cˢ 4ˢ(7; =ˢOL15ˢ'5ˢ =241ˢ(?8; '@ Hˢ @3A=ˢ4ˢ 78ˢ (145ˢ4?' 71ˢ(ˢ ' 3A=ˢ(@7?ˢO74 '71ˢ@!ˢ, ,ˢ 4ˢ67Aˢ?'; (ˢ8=5ˢ87@ (ˢ?4ˢ 41@2=ˢ = '8UV=5'ˢ4ˢ(2'(ˢ@27 '1(ˢ67Aˢ'5O4 =?= ˢ2': =ˢ,?=ˢ'5 45'75& # N a@86# ˢ = '8ˢ<'2'(ˢ75(ˢ 78(71ˢ;7ˢ 8 =5=1'Tˢ'5 45 '=ˢ ':7' 7 ˢ' (ˢ ?'; (ˢ 48 ˢ '567'ˢ (24@'578ˢ 67(8ˢ# ˢ? ˢ % # ˢ87:2'1'(ˢ8@4;72(5 41!B Cˢ (5;3=5'(3=5ˢ?4ˢ2(@'?':78ˢ =2ˢ8(; '8!ˢ '567') Kˢ 4''8ˢ6# ˢ49;= ' ('ˢ (4 L2'(ˢ;71ˢ<(: ';(884ˢ2(@'?48ˢ(5'1(=8!QB-C

Kˢ @4;72Aˢ'5ˢ= '8ˢ;=58 7; Aˢ 3(ˢ?';4:(5 7 ˢ'567'ˢ 48'(8ˢ(@7? (24@'571ˢ? # ˢ ˢ&%?"ˢ67=?ˢ Kˢ48ˢ27;'?7 (ˢ'1 17 ((ˢ2' 4 (ˢ67'( ) 271'5(ˢ''=; ' (Aˢ =22'ˢ 3(78ˢA172(ˢ275A!Q) ˢ8ˢ (?ˢ =;48ˢ 6#ˢ4ˢ %(45?4 ; ˢ2' 4 (1ˢ ˢ1'5'14ˢ'1 17 (5?(1ˢ;4584 4 !ˢ =5ˢ45'1ˢ(ˢ =;4ˢ] A;(ˢ =9ˢ 3 5'ˢ ;'(ˢ 3(=8ˢ84?ˢ(ˢ =;4ˢ 3 5';'(ˢ #ˢ' 5'8ˢ75?4ˢ4ˢ =9ˢ] A;(ˢ %@ =;72ˢ?7:'=ˢ?4 ' (5?(ˢ48 !) = 1(& ;78ˢ (8842458'8ˢ4ˢ 4 4 71ˢO':4 5= 71ˢ (?' '=54ˢ8; ':' ˢ8A;72=ˢ5=5=ˢ # - ˢ 7;41ˢ ;= = 71ˢ , ˢ171ˢ(ˢ ˢ" # ˢww@'45 4ˢ ((1ˢ;=5?'?'884ˢ'5ˢ](2A;'(ˢ'5ˢ 4 '=54ˢ ' (5 71ˢ4ˢ':ˢ 7 '1ˢ(2& '88'171ˢA?'<';(884ˢ67=ˢ5(48ˢ;7 871ˢ?' ' 4 45 & ':4 5'((!) 67ˢ q 3';78ˢ67ˢ8A;72=ˢ,?=ˢ<2=S 7' ˢ 3(ˢ141'5' ˢ7:ˢ575;ˢ48ˢ@= 78ˢ. # ˢ ˢ% ˢ # :@8Aˢ 4;75?(8ˢ(5 72(8ˢ'5 45?'ˢ Kˢ7:ˢ ' (5 ˢ;' ' (8ˢ8' (ˢ48ˢ] (22';'Tˢ (;ˢ(2 '88'171ˢ (71ˢ4ˢ'5 4ˢ@(5;(ˢ141= (5?ˢ @4 '8ˢ ˢ Kˢ % ˢ '(55'w~!Q) s7'?ˢ8' 5'<';45ˢ 4 :(ˢ ˢ% ˢ# Sˢ ((?4578ˢ4ˢ]=7 3ˢ84ˢ ' 5= (4ˢ?4;2((5 !ˢ ˢ(7 41ˢ (?' R=ˢO':4 5';(ˢ?4ˢ. ˢ # - ˢ4ˢ+ @ % ˢ ˢ

B Cˢ 3'83722! = '6!ˢ 8'(!ˢ =(?!ˢ Z, !ˢ B,Cˢ (!ˢ ! ˢ;!ˢ, !
B Cˢ E48842'5 5= ! , ˢ@!2, Nˢ 7 (= ˢ 348(7 !ˢ 58; !ˢ@!Z Nˢ =;=;mˢ 5 '6!ˢ 58; !ˢ@!ˢ Nˢ4ˢ (=5ˢ8m'ˢ (5 2'4=(ˢ 'U L@ !ˢ !, ˢ;!ˢ,!ˢ B Cˢ 4ˢ<(5=ˢ 4 78 '88'1=ˢ F# ˢ(ˢ 6 $ ˢ;=5?' (ˢ '?4ˢO4 =?= !ˢ@!ˢ-
B-Cˢ @7?ˢ (83(1ˢ49ˢ :'2=5;ˢ L:''=ˢ@!ˢ -!ˢ +

. B

&FJ# F-' SF# I8 8+8-' ! J -' ' +#8 8' 8+# '8' # 8+ # ' EFX8+F## ' JF+ ' #- #-' J 18+ F+' +8-' 8-'
#18- ' + -#F-' 8 # ' # SF#' ! <8JF2F ' #- FE' ' < # ' J E# F+ ' 1F#--8 , 2Y' 8' H#J# I8+ ' E'
8F E8 ' 1# 8 ' EEFJF F+' ' - F ,AY' SF# + ' # 8+ +F+ ' SF8+ ' + ' % ' '
' <<822 ' #'8' #2# 8+ ' #-< F# ' 1#2#F ' ' 8+JF28 ' 1F#--8' # E#J #' ! ' #8+ F-?@M' #28-'
! 8< 8 +# 28' 8- ' # # +' -F ' 8+JF2#-' ## 8 Q, Y' M' # 8 #' # SF#' "#'+ #E'F-' ` O '
M' -8F' O Z ' ' " #EHJ2 ' SF E #' ' 8< 8' 2# GF +F# ' <8 #--#'+ Q',BY
#=8' # SF8' -F2W' ! J+w' 8 ' $+ +##' ! J+#' +#G ' EFJ8 E ' 8- ' SF E' $H #J##' `# #' $ - 8+#'
' < % ' # ' I#G 8- ' $ +#-' ' -8F' ! ' 8+ +# '# ' SU<<2#-' 2F #-' J
$+ +##-' # -J+#< ' < - 8+#-' J 28 E ' +82#SF8+8' ' 8 <2 ' 8+JF2#-' " E# ' # ' SF ' G #-'
<8+<8 FF-' J 28 F+' J 2F -' EF ' < -# W' J+ ' JH + J 8+# F-' I F2G ' #G #-' # -J+#< ^' F' ++ #'
$H#2 - + F-' # ' I# ' < ##' SF#' 8+JF28 ' ' E#J F ' 1F#--8' -J+# #' #J8+ ' , . Y' 8'
! 28+ ' ' " +wJ#-' J+8E# F #' 1F#--8' 8 ' I#' ' <FE' 8+JF2 8F ' # ' 2# ' JF2 F+ ' 1F#--8' 8 '
8' 8 ' #G + ' 8J' 2#F ' 1F#--8' SF ' 8+JF+#F ' 8 8F# 8 ' SF#' $H+ GF ' JH + J 8+8-' # I8O'
#--8' E#J# F+' ' I8 F- #--# #-' ! J+#< +# F-' <FE' / JJ# 2 #F+ ' $+ J2F-' F ' 8X' -F2#-' 2 #J#-'
8X + ' 8+JF2#-' 2F -' # ' J8 ' < -# + ' < \' - J+ `Z' 1F#3-8' 8- F+ ,KY' M' 8 ' # ' " # '
M' < % ' ' ; ++H' <8+I8 #--8' 8+ - ' 8 ' $8+- - ' 8 ' $H #J - ' 82 -SF8' 8 ' $ 82# - Q' 11#+# ,_Y
wJ' # ' JF2 F+ ' ! 2#- ' -# I8' ! ' -8F' # ' ' <2 #I18' # E#J ' SF8+ ' 2# 8+ #' @
< ' # 8 ' $+# F ' F ' <<822 E' E#- # J # 8 ' # +F# ' &FJF ' 8UF-E8 ' +#G# #- ' SF#' #
8 ' --F #-8+F 2 ,CY' F E8 ' <<822 ' ' 8 ' @ 7 ' F' # ' E#J8' # 8+ #J ' ! O'
8 -8' @ ' ,LY' 8 E8 ' E ' SF ' $H #J##' ! 28+ ' <<822 ' 8820 ! 8 ' -' ! $8' &nV'
$ " " " ' F ' ++ ' $H#2 ' 2#F-' <FE' F-8 #F ' ' ' J '
' #G + ' SF ' 2F +#JW' -# ' 8 ' # J8+ 8' + # 8-' + 2 G#J ^' SFW' ' 2# ' <+# J#<# ' SF '
- #' -# #2# FE# 8' # F F+' JFUF-' 1 J###-' 8- ' 2 <-F- ' 8 ' <+ J2#I#-' 118 -# ' ' # ' H J 8 F-' 22 #-' '
O- #? -# #2# FE# 8 ' - 2 + ' # ' 8J' JF+ ' -8 -F-' #E8 # 8' 8 UF##8 ' I8+F# ' 8 ' 1 #- +#J # ' 1#E8 '
R #SF#--# +F ' 8- # ##-' J 1#+ ' E8 - + I#

B C' C!' ' ? !' (!' @!' Z!' B , C' 5' 5= (' M' (?' ! ' (: =5'8' @!' , , !
B C' @4 (' %4 =5 4' ! ' ; =2!' Z , ' ' 41674' 7; = ' @4 '8' M ' - ' ' O ' ! ' @!) F' + 7 ' 48 ' 754' =58 422(S
'=5' 4@ 45 '=5(24' 67I =5' ; =''5='' 8=78' 24' 5=1 !' E< # G
C' =@= !' '8 ! ' ; !' Z!' (?41' 2' (: 45 ' 455'78 ' (2'57 (' =; 3=?'78 ' 4 ' (2'' ' 884; 72=' '9!' 4\7*' 141'5'' '4; 378!'
8(4; 72=' %' = ' 7 ' @27 '48' (55= (" 49' =?'; 4' O L 1 = 7'5' 8(G; 72" % 1 ' ' '5' '(?4' @' M!' B \' '; !' ?4' (!' RC4= !' ! !
< C&' 5' *2*''54=' @! - ' 4 ' (L2L I8' 52 =?!' =' 34' '1'478' @!' MZ!' !BZC' 2'5!' ! ' ; !' ' 4?!' O (?!' ' @!' Z!
<' C' F' =14' (884 ' 3(' O'8 = L' : 4 (5' < =1' 34' '14' =<' ' : 7 ' ' ' '8' : L' (' 1'8 (m4' =< 3'1' <= ' (' ' - #' '
F' V3'; 3' V(8' ' + ' V3=1' 2'5L' 1 (m48' =' : 4' 34' <' 8' V ' 4 ' '5' =84 ' : 7 ' 3(' 34' (< 4 ' (' : 7 48' =' @'
A' # ' '# ' (5?' O'8 = L' =' ' + ' !- 'F; !' , M !Z ' ; !' rk B' '22'5 <244 ' ' !' @!' , !) F' 3'8' V4' (4' ; 4 &'
J * ('5' =<' 34'] 4; '(58' 3(?' 5= ' 24 4 8' '2C' 34' '14' =<' ' V3=' @2(5 4?' (' ; =2=5L' =<' '1'; '(''8' '5'] 44; 4!'
F' 4(54?' 145' 3(4' =: 84 4?' 3(' 34' 5(14' ' ; =148' < =1' 34' O4: 4V' < ' @ =: (: 2L' < =1' 3'8' ; =75 L' 34'
F' (8 ' V3'; 3' '8' < 46745 2L' ; (224?' < ' '5' ; '@ 7 4!' =14' 3(4' ; =5G4; 7 4?' <7 34 ' 3(' 3'8' @ =@4 ' 5(14' V(8' -'
K' 34'] 44m' ' ' ' 84418' =' : 4' 5=' = 34 ' 3(5' ' (8' V'22' (@@4(' ' : L' ; =1@('5 ' 34' ' 8 = '48!' %(P' 48 78'
F' (78(5'(8' @=22=5'78' '8; 3L278 ' (5?' = 34 8 ' 1 (m4' -' - ' 34' <=75?4 ' =< 34' 1= '(5' 34 : 48' V3'; 3' V4 4' 345; 4'
H!' ; (224?' -' - ' =V' (22' 3(' 145 '=5' 34' 8 = L' =<' (?178' (' : 7 4' =' : '5" 34' <=75?'5 ' =<' 34' ; 4= '(5' 34 : 48U'
F' (5?' '5' 34' %('; (5' @@45?'9' =<' 34'] 44m' = 4 : 8' V4' 4(?' ' ' -"- B' : !' @' , & !
BMC' '584(5; 378' =?49' =V4!' =!' % O ' <=2!- ' 2'5!' @4572 !' O''G78' =?'; '8' 145''54 4' 7; = 48' L@= (@: '1' ' '
!' , ' @!' Z- !) O=?'4' O' : 4 5" '8 (41' (@@422(5 ' @# ' 4" (11I5' 7 878!' =; 3=?'78' 8147'=' 5=5=' 141'5''
<48 " ' ' '!' 4!' =; '8' 4" (1'5!' =?49' 2=V458!' =!' ' <=2!' ' @!' ' ; =2!' , !' %'?4' =24 = (!' @!' 2'9' 9'' ' '
'9 '9' 999' ' 9; ''' ' 9; ' 94 'N' 55(H!' 2 !' (75!' Z Z - ' @' %=; (: !' O' : !' " ' 'I' 4 ' %' ('8 !' 57(2' (55!' -!

2 ! !' ? ?! / > ! !

/ ' ' !

=5' '8' 871' 67" =1548' 35';= 71' 8 =2'?(8' 87@4 8 ' '=548' (:' 4=?41' <=5 4' 3(2?(';=' 42' 3=4J&
1';'=' 4<<279'884' ;=5 45?(1' ;71' @27 '1 1' 8'(''248' 49' (''8' ;=82" 4' 8=2" ;' ;718 (5 ''8' @4 ' = :41!
+= (4 '5 45'(5 7 !' ' ;71' 5=5' 8=271&;72 =8' =2'8' 4' 5'8' 4' ' 78' 8(; '' 4 71' 4' '@8(' 4= 71'
5=1'5(' 7' '< ' ' ! ' 0# ' # ' (2'(674' 8'1'2'(' ;=5 45'(5 ' 67(0' 54;' (:' 3=1'J
571' '5?=24' @45?45 ' 42' (<<y; ':78&' 54;' (' 8=2" 42' ;=42" 0':4 5';'' ' (55';'' (7' 3=45';'" 5(7 ('
548;' 4' 14' <(;=' 67(' (2'(' ('=74' ;=5;7 8'=' (1' 8'7 ''2('&'8' 49@2';(5' @=88' ' 67(1' 4;7 45?=' (?'
(5 '6778' 7'?71' (?' '=548' 4' .42' '=541' ((2(1'';(1' 67(1' (?' 0':4 5'(1' @4 45'884' 1'5'14'
?7:' (5?71' 4884 ' 4 '(18" @45' 78' '5 4 ''8845' 48 '1=5'(' 49' 0'5''2;=54' 4' 48 =' (2'((' 49' 67':78'
2';45';71' ;71' ' # ' ' ;=114 ;'(' 1(5'<48 (' (@@(45 !' 67" '9' ' 5= ("@= 7R' '878'
2' 4 (71' (:' ''8' ;71' 67':78' ;=114 ;'(' <74 4' (2'(!' ' 4' '@8(' .42' =' 2';45';71' '5 ('74 ' ' 4' 4=&'
971' 5=1'5(' 4' ' 78' 4' =;(:72(' 8(; (' 4(?41' <7'884' ?' 5=8;(5 7 !' (1' (' 3;45';':78' 7871' 2' 4 (J'
71' 7 =@4'8' (?' 71' <7'884' (55'8' (5 4' 3 '8 71' - ' ?=; '88'1R' ' " 75=' = 4(<<' 1(7 !B2C

(674' ?(15(5?(' 5=5' 48' ?4 ' (2'=' =;'8' -@< ' 67(1' U7@ (' (??79'' ;71' 5=5' 8=2(' 8=5" 8' 1 '2'S
7?'54' 4' 845878' '?45 ' (4' 4 71' 4' @2'8 = ';(' ('=54' <72;'(7 !' < # 7 ' 45'1' 4' + # # ' 4'
3 ' 847' < ' 42' ' 4' ' 2' 4 (71' 4' ('71' =; = 41' 7571' 475?41 674' <7S
'884' 4' 3=45';'(' = ' '5'8' =1548' ?=; " <(45 7 N' ' (' 7' 4; 4' (<<' 1(4 '' 7'?('] (2278' 04 ;7241'
- ' 4 ;7 '71' <7'884' 4' =;41' Q- C ' (?' 4G78' ?=; '5((' 48@4; 71' 3(:4 4' 4(?41' '@8(' (&'
?' '=54' 67(' 0':4 5" =;4 (' 4(5?41' (?' 2' 4 (71' ?4145 (' 4' (?' 6741?(1' ' 71' 8(@'45 41
(58 724 75 ' 67X1' 7 ' 1' -1 ' ' (G= ':78' ?=;7'884' 4' -@< ' 0# G'
R!' w!' (@'458' 0(1' =2'8' (;4 ?=8' (@@422(71' <7'884' ?4;2((5 !B,C

0':4 5'(N' (5 '67'88'1715= (45* L '(1' (<24 ' 49' 27 (;3= (1?4578 K 5=5' ''51= ' =354;' 5872('
-'- ' '!' 4!' @4 (5 '67(' 27 (;3=' ?'4 (' <7' !' ' @ =<75?'88'1(' 45'5G' (5 '67' ('8' 141= '(' 0'8 =&'
K' p(8' 87(8' (78@';(5 7 !QB C) 67" 475?41' <7'884' (?171' 4 L 41' ?41=58 (' '2''5 <244 78 B C'
4' ^ L@ 71' (' (?1=' 8' 4' L 4' L '(1' ?'; ''1' <7'884' 5= '178' N' 75?4' 6718 '=541' 5=5' 8@= 545J'
?(1' @ =@=5'' 2(34 478' ;7' 5=1'5(' # ' 4' -'- ' 8'5' ' G*@ =' 4' 0':4 5'9' ;= (175'(~

' 3=45';'(' ' (674' ?4?7;45?(' 48' = ' =' 04 ;72'8' - ' 67" 5=5' (2'78' 4 (' 4<4 45 4' 7;'(5='
67(1' 4 ;7 '=8' 67'?(1' 3=45';71' ?79' <= 4' '?(; ' 78' ;7" (?1'' 3=45';'8' 04 72' ' 4'
4 ;7 '" 5=1'5(' ?((' <7'884' ; 4?75 7 ' 3=5= '8' ;(78(' 67'(' %# ' 5872(8' ' (55';(8' 49J'
@2= ('H!' 0" =<5548' (:' 75=' < a' 42' ' ;7G78' @ = 45'48' ;72 7 (' =2'8' @ '171' R5?79' ' 4 'S
"54 (' 3(:74 4!

<2C']'::=5' 4;2!' (5?' (22' ! '@!' ,-' 4' 5= !' !
B,I' 2(' =?49' (22'1= 458'!8!) 0'5;' <= 4' <(:72(' G' < # ' ' 0 #' ' ' ' # ' ' < # ' '
] G' 0; =?= !' != ' ;!' '@!' , !' B C']':8=5I8' (1?45' @!' !
b C' ' '548' (; ^' =5?!' <' ' @!' , ' 4 & =5578' '=5L8'(;' !9 ' K' (@'?'4' ;44' =2 4:((' (' '54 (IIT'
s7(1' 67=5?(1' (?178' (4?'<';(4 (!IJ =5<4' =5 1=5' 41!' ?4' ' 4' !' "' ;71' (78(5!' ' ;!' ,!
56748 '=5(:2L' 34' (;3'4 4145 8' (':7 4?' =' (?178' 2'm4' 3=84' (8; ':4?' = 04 ;7248' 4 8478' (5?' = 34 8' V4 4'
F' 3=' =<' =54' @4 8=5' =' =<' =54' (4!' 34L' :42=5 ' =' 34' ('=78' ;=2=5'48' V3=' (4224?' V48 V(?' (2=5 ' 34' 83= 48' (5?'
'82(5?8' =<' 34' 4?' 4 (54(5!' 34' 8=58' =<' < ' 8(L8' =5('(8' 84'(4?' 7@=5' (22' 34';=7('48' t=1' -G '(' " ' ' '
K' ;4(5!Q' L(5' L 3=2!' !

. b   P   !   ! /   !   !)

= ' (5 " 67'?41 ?4 2' 4 '8 -   '5 145 41 1'3" 45'884 <(4= 5=5 (2'(8 (: = ' '54 <7'884 67('T
5= (8 67' : 78 72 78 O' : 4 5';71 =2'1 7 4 : (7 (? 87@@7 (5?71 41@78 67= 14 ;4?4 ;=5?7; "
2(: = (: (5 ! = (8 45' ('8 A 67A (1'8 (:= < '5 '5;'8A ?';4 : (5 7 (9=5';4 # 4 T 48S
84 (4 4 (5 U' ('5 ?''(8 @(48 @4 2=7 ' 7?'54'5 ?' '8(8 7 2'54(?' '8'=5'8 @4 ;7G78 '8 5= (8 14?'71
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2'' (' @ (4 4 4(' 67^' '5' P?';4' :?'4'(5u T' 7 I2'58=5' =' - ' 4 5@= 7<5' '5 '?'(' ?4@ (((' 2X 7 7 '@5484 '1' '5' 5= '8' 3 =5=2= ';'U' 5'G 8' =?';'8' % ' (?' @ '8 '5(1' '5 4 '(45" 48 ' 7" @= 4 75 '4 '4'''45?5 ''1 ' 45" 8" ;7p5' (2'=' =?';4' \7 *ph;4u' , # ' 1 # #' 9 (' =?49' 3'4' '5' 784=' '(55';=' '5 4 ' 2(<'5?=3'(5=8' =1!' 999 '' 7 ' '5&' |8pT# Zp" ((2= =' O(''4'(''=' =' Z UN' 4'65(1 <4' 5=5'5'8" m #% ' ;=5 '54(' '5;'@R;7 (' z' =?';'8' <=2'=' -' 4' ?48'545 '(' '5' <=2'=' 8 % E = ^" 41@= 4' ?4; '@ (' ; 1' (5_'" 49' (5 'b07'= ;' =?';4' ?48; '@ (' <74 '5 ' 4 ''5' (55? 75" 5 14 '8' 87@@7 (5?'8' L4 ' I' @ = ''14' (;;4?(5 ' 1'5'14' ?48@';'X5?('49'8 ' (('!' 5' =?';4' '8 =' 3(;! >%(^" 1(57'8; '@ ('24 '1 7 '<=: J&JK' '- ' , #f '! ' '$ -' ' ' # # ' 1' 1 ' ' / ##' '$'' ' 1 ' ' # 1' # ' " ' '' - ' A' E/ ' $ ' '5 8 @#@ '^ Q' 1 ' ' # i 8 ' O %J # ' * ; #' # # ' 'K' . a' " #' ' 1 ' !' / (' ; '" ' 1 # ' CQ' ' # ' K' E< ' 3 # ' . 7 O ?' 0 'N1'/ # ' $ ' ' 1 *' ' % ' ' @8' K' , ' # ' 8 ' # '' ' ' 68' ' ' ' % ' ' ' 1 ']1 8'

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Oz8;' 8''@' 67^' ?=' 5'8<(2458'71' =?';4' 7:2'5'458X' ?';45?(' @ bC@=8Yp!' U ^ 4 (' 67^'?';45?h' 87@4 &' 875<' '5" = '8' 4'<@2';(5?(' 4; = 71' :454 =245 '^' 4' 371(7' ('! 2=;u' 4' 4 5@= 4' =@= 75=' 3'57R2" (5'1='87:G';'45 7 !*

8+# '<+a' JF2#-' 8 '# ' #-' 8I 2I8 E#-#' ' hE ' I#+ F 8-' -8E' 8' \ ' SFa' # ' G8 #F ' 2# F-' JJF++F ' hE' + -' H # F ' # 1 + E -' <2F+# # ' J 18++J' SF#<<8' SFa' 8GF ' 8J8--# 8 ' # E#J ' 8 # ' # 8+' G8 8-' ##hSFU '?!] J # 8?J -<#JF -' 8 ' d <8-' # F# ' B7+E# #83']E' 2 J# ' JF#SF8' <+ <+# ' 28 E ' I#' SF E ' -# GF2 +#' <8+-F E8 ' U +8-SF8' SF ' FE '<+ 8< ' Ji28 -' 8 ' SF# F-' E' 8# '#- '-8+I E ' # Jc 8 F+

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2F- +8 ' 28+F ' -# F2' JF+' # G8 #' 8X8+J# F' J + ' +8-' /8+GF-# -' 8'
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-88F F-'8-1'#<-8' 8' #8 -8-''8 -' 1FG 8-' 8 -' 8' -8' :F E'
I#E#' + JF-' #E' <+ #-#' -8+I ' JF++F-' H E -#' ,#'8' F+#G 8Y' SF#ESF#E'
< - F2 +8 '-#' JF+#F ' GG8+8' E' #<-F '<+ 82##' 2 JF ' #' I#J8' SF' J#+JF# F+'
1 J8+8' - FE8+8' H E #F-' $+< #-#' F+#G '#E' -8' 81 ?8J F+F ' SF8' <8+18J#'
G#' 8 # ' JF++F ' +# F-' I#J# F-' E' 2 JF ' <+ 82##' < - SF ' H E 8F-'
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1F8+# ˢ < + 8ˢ 8 +# 8ˢ SF 8ˢ - 2IF ˢ 18J8+F ˢ 8F ˢ JF ˢ G8 8ˢ -F ˢ < - SF ˢ
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B C '!4! 345'=& (78 847 @2(5' '48 42 ; (1 @78 3845'= ''1 5=5 4 = 67=? @ = 878 (: 8=5 ((+ -# 1 '2' 4 8' ; ?'4 (7<" 845 '" 2(34 ! L ! @! t! 2' 45';48] (?' (5=8 7 '674 (; (48R=8 8'172 ; 71 : 4 '8 O'8@(5'84 '5 49@2= (5?'8 4 (@4 '45?'8 <=?'5R8 3(: ' 7(2' 4 49@4 '8 '5 3(5; 587' (1 8 (55" <4 '674 14 (22(67' : 78 @ (4 (2''8 4 '8 (: 75?(: (4<<=?'45?" ('((? 45 ' (5 48 @ '1=8 <4 4 O' : 4 5'n '(: ' (= 48 <7'884 '5 (78 ('' : 78 8(2 4 5 4 = ; ; '?45 (2' : 78 @2('8 4 = 8(54 @27 ' : 78 ?7; 78 ('=5' : 78 (2' : " <= 8(5 ?4?7; 45?'8 4345'45 4 878@'; (8 871N 54; 8'54 ; (78(@2(5' '41 ?4 N " D* -t & # % ?'; (1 845 '= ; 71 '5 '22(. 4 '=54 @27 '1(4 '5 375; 786 4 [?'41 1' (4 1(5' 7?'5'8 ; =58@'; 7(4 8'5 =27 15' 2(@'?=84 3=85' ; 7 (1 = 4 '5 ; (5'@'8 4 ; =22' : 78 4 44 84 8@4; '('1 4 = G79 (O # 2'7G78'5=?" (5 '67' ('8 =57 145 71 57567(1 8('8 (?1 ' (5?71 G(; 4 49 , 2(@'?X'8 =27 17'8 '5 67(? (= = : 2=5 = (? h5 72=8 4; =8 @=8' '8 4 (? 849 ; ' ; '<4 @4?48 (: 3=?'4 5(; ' ; 1(1 : '45 '8 4 44 87@4 <' ; '4 @4 @45?' ; 72(' 4 4 4; '8 87@ (67' : 78 8 7@45?'88'1(4 1=2'8 4 1(5' 7?'5'8 2(@'8 75' ; 78 ' (4=14 ' ; 4 @=8' 58 G(; 4 '5 3= ' =5 (2" 8' 7 7 ?7(: 78 8=27 1 1=?= 49 @ (4?' ; '8 ; =27 15'8 ''8 8; '2' ; 4 67(4 '5 75'78 (1 ?48; '@ " 67(? (" 2'54 4 ?'(=5(2'8 4 1'5'8 4 ' 75 7 (867'2' : '= 878 45 4 7 ; (4 4 '8 = 15' : 78 ; =27 15'8 (8 7@45?('8 (1=24 @45' 78 '5 (; '8! v4674 ?7(7 ('8 (7 (67' : 78 '55' ' 7 =27 15(71 (@' ; 48 2(@'?'8 87@4 G(; 45 '8 87@4 <' ; 'y1 67(4 87 : 4

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ʿ GJ + # ʿ 1#2##ʿ + 12 J#ʿ Vfʿ 8G#-ʿ ( ) : =# 8ʿ 8jʿ <T$ʿ / 8 #S-ʿ 2 - ʿ 8 ʿ
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+ J#' <+w 8+8 ' # <8 F ' 18J# ' &F 2 G#F-' 1#2#F-' w#' 8+ #- ' 8X'
G8 #w ' # ' +#G# ' 1#2# -' 8G 28- ' JF ' -F#-' 2'#G# ' J#22#- ' # ' F '
JJ#E8+8 ' 8- ' <FE' ! 8J8--F ' #+ #2#F ' SF <+ < 8+' JJ#E# ' + JF-'
8X' EF E8J# ' 8G 28-' G 8-' G8 # +F ' # ' F2J ' <+ ' ; #+G# # F-'
#- #-
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+8-<F#--8 ' E 2 2 +# ' <8+ G8+8' 2 G8' 8 ' 8 ' < - SF ' 8G ' E#J --8 '
' G+ # ' + +8#' ##/8 J +## ' EF-' SF ' + + 8 ' <<8 ## ' + JF- ' 1F# '
SF E' -- ' ! 2 #-' EHw-# ' GF F+#' 8UF- ' I 82' SF E' ' ' ,# ' 8 ' 2I F-'
J <# 8Y' &+F#E ' JJ#E# ' 8F ' SF# ' +8-<F#--8 ' E 2 2 +# ' <8+ G8+8' -#JF '
Jw 8+# ' EHF-' 1#2#F-' " +8G #' 1F# ' 8X' J#w' 8 < +8' H J ' 8 ' 1F# ' #-'
F2 # F-' 8X' <+ G8 #8#' 82G +F ' SF#' # F8+F ' 8G [' J#w ' # ' 8 '
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2 JHF ' 1#2#F ' &F E+8 # ' - G# #- ' F # +818+ ' &#- #JH ' I 8 F-@

K' 7' ' p5778' =; ; '878' 8(' '8) 8'54' ; '1 '54' 8'54' 4 5?42' (4
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&8J <# I# ' 2 8F- ' 1#2#F-' #' 1#2#F ' &F E+8 # # ' I# E#J ' <+ '
/ # # # F ' ' J8--# ' ; #J +# ' # ' <+w2# ' 7 A ' # 8+ 8 -# F-' < - 8 ' #' 8'
' <+w2# ' 5 G - ' # E8 @ / +8G# ' GF-#F-' X<FG + ' 1#2#F-'
/ # JH# $+ -<8+# ' 1#22# / 82# ## 8G#18+# ' JF2F ' + J# ' 8 ' " F 8+ +8 '
8 +#w' F ' 8 E8 SF8' U J F' H - w' JJ#E#) @ # F# ' + JF-' SF F +'
<+w2# ' J + ' <+ G8 #8 ' / # JH# $+ -<8+# ' # ' F ' 8X<8228+8 ' 8 -' # '
8 ' ' +8E#8+8' # ' +8G# 8 ' <+ <+# ' < - 8 ' &8E# ' 8 # ' GF-#F-' 1#2#F-'
E1+ JH#, 8X' #wY' <+wE# ' 8#- ' <+ < 8+' H 8 ' - 2# +# ' 1#2# ' 8G#-

B C' 5 ' ' # ') ' (' '5' 1 ('54 ' (2' (' 1 (57! 5 71' = : ' 7(241' '55' ' B 72 =' 7 # ('
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f, 4 # # # , # E # ! !) , ! 7 ! , # , G / # 7 , ! #1 # _ , 7 + , ! JJXJI ## 92 7 + , , # E # % # / ,) , ! ! / , w , 7) , + , 7 + _ / # # , ! JJJXXI ## 92 / 4 , # # # , ' % # , i # , ! % , = JJJXXX# !G _ H , # , p , ! % # _ # , ' % ! % #! ' , _ !

G8 #w SFw 1F# 2F F +# 8#- # <8 + # Fg +8 -# # 8 H # # # F-SF8 # H E#8+ F E#8 # 8 # +8G# 8 &8-# / H E## F # <8+# &# #E## # E 88 JJ#-F- 8--8 / H E#F- F++FF# <8+ 2#8 82 <+ <+# # I# E#J 8 <8+ #2# 8- / # JH# ! +8 H # 8 92 , Y / # JHF- ! +8 H # 8 1F# E8J8 #- 8 I#G# # 8X 8 +#w E 88 8J#-F- 8--8 22 #- # <+w2# &F J # +8 -8 # 8 1#2##- 1+ +#- <+ <+# 8 # F# / # JHF- #J <+w2#F #- / F E <+w2#F ! # H# 8 -8 8 <+w2#F <# GG8+#- - J+# 2 <#EF J + G8 #8 -8-

% ! 92 ,AY F- #2#- SF F + #-718G I# E 88 8X<F2#--8 8F F+8E JHF- #+8 JH JF EF F- 1+ +# F- -F#- # 2 # +8J8 # H # 8- -8JF # -F 8F -8E # F #F- -< # 1F8+8 <2F+8- SF + E8J8 # 2 # 8E#8+8 # 8 # 8 -8-8 -F E#E8+8 -8 8 #w F+80 E JH# #+8 JH <+ F28 $ +#- -F# &TE# F+8E JHF- <+wE# 8#- 8 H +8- J F2# F2 - , Y

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K'49 ('4 '(1571' !' . 4 72(' =5(8 ';(' 67(1' '5 422' ' ' 7' =@'5= ' 55(2'71' 2 =5'4''8'71' =224; = '
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8--8 ˢ# ˢ <+-82# ˢ ; # 8ˢ +J#- ˢ -# I 8ˢ +J#-ˢ 82G +F ˢ I8 # ˢ ,-# I 8ˢ ! EF-Yˢ
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& >>; ˢ 92ˢ +8 E F-ˢ 2F 18+ 8 -#-ˢ ## ˢ 1 ˢ . __< `# # Y

, Yˢ E8Xˢ <+-8E#J F-ˢ H 8Jˢ H 8 ˢ SF 8ˢ # ˢ &F 2# #8 -8ˢ E8-F @
:9 ˢ 8 ˢ 8 ˢ ? " G !ˢn ! V / ˢ # ˢ ? "
ˢ : #8-ˢ 8 ˢ / ˢ ˢ XJ# Iˢ ˢ ˢ !ˢ ' +ˢ / ˢ # ˢ / ˢ e ˢ
% ˢ ' # !>
, Yˢ ! EF-ˢ &+ 88 8 -#-ˢ H # ˢ 8- ˢ ˢ ._ Zˢ $+ 28G

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& >> ; ' 9 ' / , ' / ' ' / ' # ') 1 ' #'
w' 7 # '+ ' ' / ' ' # ' ' ' ' , # ' '# '
#' 7 ' ' % # ' ' ' ' . CB
&XJ' 92' 8 ' 7 ' ' / , !' * ' , # ' ' ' , E '
) !' 5 ' ' 'w' # ' ' 1 !
& XJ#X ' 92' ' + ' ') ' w' / ' ' ' 8 '
' '! ' , # ' # ' ' ' + ' ' / ' '
+ , 'w' / ' ' ' 8 ') !' ' ?
& ' 92' 8 ' 7 ' ' ' ' ' ' # # '
!
'!' 92' 8 ' / # ' 8 !' ' ' ' / ' ' w'
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7 ' ' ' , ' / ' 4 ' ') 'w' ' / !

9 ''!' 92' + +8F-' F+I -' 1#2#F-' +##F H #' 8X' &8- #-' ## '
8 ' / 8+GF-#F-0!J 2' 1#2#F-' +# H #' 8X' 1F# ' # ' 8UF-' 2 JF ' 8I8J F-' -8< 8 '
#-' E =88' ##-- ' 8 ' / 82# #F-' 1#2#F-' #G8+ J #' 8#' -FJJ8--# ' ' .CB
]!' 92' # F-' / 82# ###' 1#2##' + +8#' J ' #-' 1F# ' 8X' &8- #a '
" H+ F-' 1#2#F-' E8#' 8 ' 2G E#F-' 8#' -FSJ8--8+F '
&> >' 92' EHF-' !2 8 -#-' 1#2#F-' &# + # ##' 8 ' 2 F-' # 8E' 1#2#F-'
E #' # ' - J# ' <8+# ' # ' 8 +# ' -8X' #-' E =88' JJ#- -'8--8 ' XB EHF-'
!2 8 -#-' <8+' 22F ' 1#2#F ' !F 8#' 8 '^ 2 F-' # 8E ' <8+' JH F '
&# 2 ' , 2Y
!' 92' ?' # F-' / JH #' <+# #' <#-J <#' --a' <8+8G+# #F ' # '
+J 2FG# ' G +# +F ' --8 -#F
&J#' 92' # F-' G 22#' 8 JH +8 -#-' EHF-' -F8 -' 1#2#F-'
22#' <+# -' 1F# ' 8X' #a' #F- ' 8' <+ G8 #8' + J#0 -' SF#'
J+8E#E# ' 8 ' < #~ F-) 8- ' / F# ' #-' SF#' E # ' / G4 ' ,#' 8 ' !8J8--F '
a+#-Y' &8 ' 8 ' 2

B C' =?49' O (24'(578' (557 1' 493' : 4 ' -MZ' 3 :' 4 : '8' M' -MZ&' e ' / , - -' ') ' U!'
M' & ' ; ' ' XXX I' # ' ~ ' !' XX I #^' : W 8-' +!' + !' e ' / # '
8 >' 4' (55=' = : ' 7 (24' ! =27 1 : 84 ' '?4' =24 = 1 !' @(!' ''!@!' M!

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& #Iˢ 92ˢ 8 ˢ # ˢ # Gˢ) !ˢ 8 ˢ / ˢ2 ˢ
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Mˢ ˢ , >V & ˢ ˢ ˢ ˢ/ e ˢ ˢ/ ˢ ˢ !ˢ 8 #ˢ
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ˢE ˢ' ˢ/ ˢ ˢ ˢ !
&JIˢ 92ˢ 4 ˢ ˢ) # % , # ˢ
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& ;ˢ 92ˢ # F-ˢ 2G E##ˢ 8G#-ˢ &8- 8ˢ # F-ˢ 2 #ˢ 1#2##ˢ
8 # #ˢ &#-J#<F2#ˢ +8 E #ˢ #-ˢ 2F 18+ #8ˢ 8ˢ <+# #ˢ <#-J <#ˢ 2F # 0ˢ
aˢ # ˢ F- + 2#ˢ # ˢ &8ˢ 8ˢ E#J# F+ˢ # ˢ ;# ˢ +8 E #ˢ 8UF-E8 ˢ
M 2 F-ˢ 1#2#F-ˢ 8 # #ˢ! J F-ˢ #22F- +#-ˢ -J#8 # ˢ8ˢE8I # 8ˢF2 + ˢ<2F+# -ˢ
! J +F Qˢ 8 < +8ˢ E #ˢ -F8 #ˢ1#2##ˢ 22#ˢ1#2##ˢ JH E##ˢ JF2 +F ˢ
+F 8 #F #ˢ # ˢ # ##8ˢ #F-ˢ ˢ # ˢ/ / / ˢ
<#-J < 28 ˢ# ˢ 2F # ?ˢUFX ˢ # +F #ˢ #8 -8 ˢ < - SF ˢ <8+- # #--8ˢ
ˢ H8E+ ˢ#- ˢ<2F+2 F-ˢ #-ˢ &8ˢ<+ - <#ˢ GH 8 F G E#ˢ I#ˢ + J#ˢ
-ˢ1F#ˢ 2 F-ˢ#- 8ˢ UFX ˢ2# +F ˢ #- +#+8ˢ G aˢ #-1 2# #ˢ /# G# F-ˢ
1#2#F-ˢ EH#ˢ #G+#ˢ # 8ˢ +8G F ˢ &8- # 8ˢ < -ˢ 2G E#F @ : F#8-ˢ
/# #ˢ #-ˢ 8ˢ 1F E +#-ˢ - 8+##ˢ F 8E JH8 -#-ˢ 1#2##ˢ 8< #-ˢ
JH E##ˢ, Y
%!ˢ 92ˢ EHF-0 #+# E JHˢ1#c#F-ˢ& 2E#ˢ 8Xˢ 8 +#+8ˢ-8< 8 #-ˢ
+8G I# ˢ8ˢ ##ˢ 8 <+# -eˢ,AY

B Cˢ (?4'5ˢ3(:4ˢ ' 41(;3!) 3 =5=2= '(ˢ49ˢ, $ ˢ 48 '745?(ˢ48!
,AYˢ E8Xˢ +28# FF-ˢ F#ˢH 8ˢ ˢH#8ˢ #--F ˢ-#J@qˢc C!ˢ e ˢ/ ˢ !F

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;9 ' !' 9 ' 8 '7 , ' '; ' / # ' ' %; '
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;9'9!' 92' 8 ' 7 # 2' ' ') , ' _' ' 8 ' '
/ ' # ') ' w' / ' ' ' 7 G/
, ' # ' ' ' ! 8 ' / # ' 5 !
& >> ; ' 92' 8 ' / ' ' ' 7 G ' # ' / ' w'
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99 '''!' 92') ' ' ' ' , # ' #' { ' #

9''!' 92' 2J ' 1#2#F-' E2##' 1#22#' #+8#' +# F-' # #-' E 88'
JJ#-F-' 8--8 ' <FE' 8 ' / F E' <8+' ! F 8F 2' $ + I F
%!' 92' ! F 8F-' $ + I F-' 1#2#F-' / # JH+ #' +# F-' #-' 8 ' E8J8+ ' E 88'
JJ#-F-' 8--8 ' ' 22 ' F+ I ' 1#2# ' ! J 2 #
;9 ''!' 92' # F-' / # ++#' <+# #' <#-J <#' +J G#-8' <FE' 2F 0'
' ,# 8 ' - 8+#F ' ! 8J8--F-' 1 E# +F ' 8+#- Y' 8 ' -8<F2 -' 8- ' <FE'
+J G# ' # ' JJ28-# ' <+ <+# ' & 8' <+ G8 #8' +# #' 1#2##' JH E##' # 8E ##'
1F# ' / # ++F-' #- 8
!' 92' # F-' / # G# #' 1#2##' EH#' #G+# ' 8 ' EH#' 8 #' 1#2##'
+# ' #' 8GF ' & 8- #-8 ' 8 ' 2EF-' 1#2#F-' E #0 / 2 #0 F ## 8 +F '
8 ' 8G F ' # 8 @ # F-' 8 G# #' " 28 E 2 JH \ -#- , 2Y
;99 ''!' 92' # F-' H 2E#' 1#2##' E#0 / 2 #0 F # 8 +F# ' 8G#-'
--82##8' 8 ' & 8- #W ' 8 ' / 2 8F-0 / 2 F-' # 8 ' +8G F ' < - ' 8 +
& >> ; ' 92' & 2EF-' 1#2#F-' E#' X # I ' #-' # ' 8 +# ' E 88

, Y' E8X' +28# F-' F ' H 8 ' ' ' -#J @ M' ' ' e ' ' ' !' e '
L' / ' + ' , , ' % # ! P' ! 8E' J 18+' F 28-' 2 #8 -8-

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' ' E # '# ' , ' # ' _ ' # ' ' ' G!'
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999 '!' 92' 8 ' ' ' A ' W' , ' 7 , ' 7 ' # '
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i M ' 9 ' 8 ' / ' ' # A ' # ') ' C' ' '
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##--8 ' # ' +E1 H J2' JF ' I#J +# ' 8X +8 -' F J # #-' 8 ' <-8 # 8 # - ' F #'
<+ 8E#X8+ ' 8#' ! ' 2F ' UFX ' -J+#< ' E #' SF I#-' E#J '
2#SF#' #- +# G+ < #' JJ#-F #' 1###--J' # ' <+ 82# ' ' 2 #8 -# F-' /+ 8+'
HFUF-' & 2E#' 1F# ' 2J ' <#-J <F-' 2 JH +8 -#-
&JXXXI# ' 92' # F-' JHFE #' H8 8 -#-' 8 ' # F-' / 2 8#' /2 #'
8G#-' &8- # 8' 8 ' F F-' ##2#F-' 2G E##' # 8 ' 8G F ' < - ' 8F ', Y
! ''!' 92' 8 22 JHF-' 8 ' 22F-0 " + J#2#-' EF ' 1#2##' 2J #' - J# '
<8+# ' # ' 8 +# ' X##' #-' E 88' JJ#- -' 8--8 ' < 22F-' " + J#2#-' <8+'
&# + # #F ' 1#2#F ' EH#' !2 8 -#-
'''!' 92' # F-' F #' 1#2##' 2G E##' 8G#-' &8- # 8' 8 ' 0'
JHF-' 1#2#F-' / # G# #' # 8 ' +8G F ' < - ' 8F

, Y' E8X' +28# F-' H kJ' H 8 ' E' F ' HF J' 8 ' -8SF8 8-@0
kgk ' % ' + ' E 'M # '1 = ' ' N% 'kgQ a
kgC@' x ' + 'M # @ 8J 8 @ !J+#<-# ' F ' 8' B' %# % ' - ' # 8+ ' $+#+ +E
<'
kgX@' x ' + 'M - @ 8J 8
' x ' ' - ' ! - *@6 8J 8
' x ' ' # @$ F2 ' 2# 8+' --8+#F-' SF#' '2#FUF-' # F ' +818+ ' 8X' 2#
#-1 g -#F #' E#J8 ' E' ' " ' $+# +E ' < L_A ' R
K. ' 4 ' , ' ? " ' ' n !>@ +F ' #F ' #' # ' # # F-' - +#-' E
28-' 2 #8 -8-' JJF+ 8' E81# #F F+ 0@M' +E + J 8 -#-' X' / - , ' -#I\
G' +8 +F ' G8 8+8' + F- ' # ' # 8+ # ? ##' ' krC ' 8X' SF ' % ' 8 ' E#E#J#--8' -8' <+ 1# 8 F+'
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& ; 92 8 22 JHF- 1#2#F- 2J - - 2F- # 8 +# < - JJ#-F
1+ +8 SF F + # 8# ,- 2 Y E 88 J8J#E#--8 JJ#-F- &# + # # 1#2# EH#
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& ; ## 92 # F- JH# 1#22# /# G# # 8G#- &8- # - 8 F-
-# 80 +8 +8G < - 8F
& I##+ 92 &# + # #F- 8 2 H J F- EF 1#22# EH# !2 8 -#-
-8< 8 #- # - E <8+# E 88 ##--8 8 12 I <8- 8 , Y
& > 92 # F- #0 ! # 80 +8 1#22# H 2E# 8G#- &8- ##8
8 2G 1#2#F- / 2 8# /2 # 8# -FJJ8E#
& >; 92 !8 JH - JHF- 1#2#F- 2 J# -8X #- +8G I# E 88
JJ#-F! 8--8 <8+ &F EF# F 8G8 + +8#
& >> 92 8 1 2 E#F- 1#2#F- 2 H J# SF F + #- E 88 JJ#-F-
8--8 <8+ /# JH F 1#2#F & 8H E#
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, Y E#J8 +28# F - F#8 <+ X# F- 8- #- I8+ c-@
M x % % ! # x - + - % % B
2 8J F 8 # +G# 8 +818+F F+ P + 8# F 8X 2# F- E K. E#J8
E28# # F- +818+ F+ E K.

, # p# ʿ5 ʿ ʿ8 ʿ ʿ
ʿ ʿ ʿ # 2ʿ_ʿ ʿ/ # ʿ ʿ/ #!ʿ 7ʿ ʿ ʿ7 ʿ ʿ
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& XXI##ʿ 92ʿ 8 ʿ/ #ʿ ʿ7 ʿ7 ʿ #ʿ) ʿ_ʿ
7 # ʿ ʿ/ G/ =' ʿ ʿ #ʿ ʿ !
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_ʿ* ʿ ʿ/ G, . ʿ #ʿ# ʿ # ʿ ʿ !
&JJʿ 92ʿ 8 ʿ* ʿ ʿ/ ʿ ʿ ʿ #ʿ) ʿ/ ʿ
ʿ* ʿ ʿ !

I +ʿ>>ʿ #-ʿE 88ʿ JJ#-F-ʿ8--8ʿ#ʿ<+ -2#ʿ"+8 22 J2#E #2 -8 -8ʿ-# F2ʿJF ʿ
1#2#ʿ-Fʿ +8- 22 ʿ<8+ʿ EF ʿ1#2#F ʿ F H G#ʿ 8ʿ <8+ʿ G 2 JHF ʿ1#2#F ʿ
G#ʿ/F# #-ʿ/# JH F-ʿSF#J E I#ʿ +# F F ʿ F+ʿ G8 #8 -# F-
& XXI##ʿ 92ʿ #F-ʿ 2G #ʿ 1#2##ʿ / 2 8#0/2 #ʿ 8G#-ʿ &8- #)ʿ
8ʿ/# GF# F-ʿ1#2#F-ʿ #0-# J+ +8ʿ+8G ʿ< -ʿ8F
&JXJʿ 92ʿ G 22F-ʿ1#2#F-ʿ 2EF# #ʿ 8Xʿ&8- # ʿ JJ#-F-ʿʿSF# F-E ʿ
!JH 2 +# F-
&JXJIʿ 92ʿ G-8JHF-ʿ1#2#F-ʿ GF-##ʿ I8+ʿ #-ʿ#ʿ 8 +#ʿ E 88ʿ
JJ#-F-ʿ8--8ʿ-# F2ʿJF ʿ +# F-ʿ1#2##-ʿ-F#-ʿ +EG 2 ʿ +#ʿ G ʿ ʿ
8ʿ1 8-ʿ#ʿ # 8+ #ʿ 8 < +8ʿ#-2
&JXJI#ʿ 92ʿ #F-ʿ/# GF# #ʿ1#2##ʿ #ʿ-# 80 +8ʿ 8G#-ʿ&8- # -ʿ8ʿ
2#2EF-ʿ1#2#F-ʿ #ʿ-# 8ʿ +8ʿ H # 8ʿ+8G F ʿ2 Jʿ8UF-
& ʿ 92ʿ #F-ʿ 2#2E#ʿ1#2##ʿ #ʿ-# 8ʿ +8ʿ 8G#-ʿ&8- #-8ʿ + JF-ʿ
1#2#F-ʿ 2#2E#ʿ+8G ʿ< -ʿ8F ʿ, Y

, Yʿ E8Xʿ +28# #-ʿ F ʿH 8ʿ_ !ʿH#8ʿ I8+ #-@_ !ʿMʿ E F-ʿ -ʿ 8ʿ8ʿ ! <#8 -ʿ
MʿSF#8I#ʿ#ʿ>< ʿ -ʿ H+ʿSF#8I#ʿ :F#8-ʿ 8ʿ #Fʿ #ʿ #FEʿ :F#8-
ʿ ʿ #- +8ʿ :F#8-ʿ ##GF--ʿ ʿ +E JH ʿ :F#8-ʿ ʿ , ʿ #- +8Q)

1#5 * 8 3 2 9ˢ : #

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; ; 9 ' ! ˢ 92ˢ 7 # ˢ ˢ ' ˢ ˢ ˢ , # ˢ #ˢ # ˢ
u ˢ ˢ ˢ ˢ ˢ ˢ ˢ W ˢ E Dˢ ˢ ˢ ˢ ' ˢ ˢ
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Y ; ; 9 ' ! ˢ 92ˢ / ˢ ˢ * ˢ # ˢ) ˢ ˢ ˢ
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& J J X X # I ˢ 92ˢ / ˢ ˢ ; # # ˢ ˢ , !ˢ ˢ # ˢ

1#5 ; 2 3 2 9ˢ : #

%!ˢ 92ˢ G 22F-ˢ -# 8ˢ +8ˢ 1#2#F-ˢ /8+GF-##ˢ +8G ˢ 8 + 8ˢ -8< 8 ˢ
#-ˢ E 88ˢ ##-8 ˢ -F 8+-F-ˢ 8Xˢ # <+ I#-

ˢ !ˢ 92ˢ /8+G 2F-ˢ 1#2#F-ˢ 2EF# #ˢ +8G ˢ 8 +# 8ˢ ˢ F ˢ 8ˢ
E8J8+ ˢ E 88ˢ JJ#-F-ˢ 8--8 ˢ # ˢ <+ 82# ˢ 2 8 -8 ˢ -# F2ˢ JF ˢ K ˢ G8 #-ˢ -F #ˢ
<8+ˢ F+JH EF ˢ 1#2#F ˢ + Eˢ 8G8 ˢ G8 #4 ˢ # F-ˢ + J#ˢ 1#2##ˢ
G#ˢ 8G#-ˢ &8- # 8ˢ ˢ #-

; ; 9 ' ' ! ˢ 92ˢ + JF-ˢ 1#2#F-ˢ 2#2E#ˢ 8Xˢ &8- # Tˢ # #SF8ˢ JJ#-F-ˢ

; ; 9 9 ' ! ˢ / G + JHF-ˢ 1#2#F-ˢ # 22#ˢ ' 8 + ˢ +8G ˢ 8 +# 8ˢ ˢ F ˢ
E 88ˢ JJ#-F-ˢ 8--8 ˢ # ˢ <+ 82# ˢ # E82G# 8 -8ˢ <8+ˢ 98 8 HF ˢ 1###F ˢ +G 22# ˢ

%!ˢ 92ˢ 98 8 HF-ˢ 1#2#F-ˢ +G 22 JH#ˢ SF F +ˢ #)ˢ +8G ˢ # ˢ
8 +# ˢ E 88ˢ JJ#-F-ˢ 8--8 ˢ # ˢ <+ 82# ˢ &+ J +J +8 -8ˢ <8+ˢ /2 H8+ JHF112

! ? ? ! ! ! A .

& G G 7 , # # _
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1#2#F G-8JH# 8 <8+ & 2EF 1#2#F 8 22 JH# 8G8 J#-8 8 <8+
F+JH EF 1#2#F + ## 8G8 G8 ##8
; ; 9 9 ' ' ' ! 9 2 / 2 H8+ JHF- 1#2#F- G-8JH# -8< 8 #- # 8 # +#
E 8J ##--8 # +E JH JHF-
SJXXX#I 9 2 EHF- 22 / #2#F- / 8+G 22+ I8 #- # 8 +#
E 8J JJ#-F- 8--8 # <+-82# # JH 8 -8 <8+ & 2EF 1#2#F F+JH E#
&#JF #- +# G+ <H# 2## # <+ 82# ; 8 8+#- <# ! J+# J8J#E#--8 8F
$8- #- 8 8 < +8 SF - <8 # F- E8- +FX# F 18+8 < <F2F G8 # 8 #F-
@ $+ 2#F JH E8 -8 G8- F <8+ EF 22 F UFX &#- #SH @

K (42'71 ;3:(?4584 '5 (5'( ) 7: <74 4 <= '88'1 45'= 71
=5 48 87: 8=24 8@245?'?=) 1('8 8 457(458 67(1 (45'458'71 '5 0':4 5'(!

JJXXXI 9 2 $+ 82#F H 2E 1#2# / # GF# # 8G8 &8- #a
G8- F J + G8 #8 -8-
& >>> ; 9 2 $+-82#F 2#FUE H 2E 1#2# / # GF# # JF G80
#8 -# F-

A K ! ! / ! !

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9 9 ! ? 9 2)) , # E #
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E# #F-' m 2-8J 2 F-' 1#2#F-' 2+F G#' # 8' +8G F ' 8 +#G8' '
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$+ -2#F 'G8- F ' ' G J 8 -# F-' --### 8' J + ' & -' <FE' +J8+ '
2 F2##' F #' J8J#E8+8' - '8 +F ' $+ 82#F ' G8- F ' ' #G8+ J ' 8G8'
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/8+G 2F-ʽ ' F +Jʽ JF ʽ G ʽ 8X8+J# Fʽ H J# 8ʽ 8F ʽ # -8SF8 8ʽ F-SF8ʽ Eʽ *2F 8 ʽ / #+G2# ʽ <+ <8ʽ 8 ʽ /8++8F ʽ F #ʽ I#J +# ʽ <8<8+# ʽ # ʽ Fʽ HG F-ʽ J J [-ʽ 1F8+# ʽ + - +8ʽ 12F 8 ʽ -JF ʽ < - ʽ -8ʽ E8+82#J

3 , 4 H ʽ 9 ʽ $+ -2#F ʽ ! F2JH E8 -8ʽ G8- F ʽ ʽ HG #F ʽ 1#2# ʽ 8 8 H#ʽ 8G8ʽ --82#G8ʽ J + ʽ & -ʽ F #ʽ JJ#-#ʽ -F ʽ ʽ 8 +F ʽ 8ʽ # -8JF F-ʽ 8- ʽ 8 -ʽ # ʽ 1FG ʽ F-SF8ʽ # 8+#JF ʽ 8ʽ JJ#-#ʽ -F ʽ <2F+# #ʽ # #ʽ 8ʽ J F- -ʽ -F ʽ 8 +F ʽ +J8- ʽ 8ʽ 2 F ʽ 8- ʽ ʽ 8#-ʽ <2F+# F ʽ F+#ʽ 8ʽ +G8 #ʽ 8 ʽ E#I# #-ʽ 8 ʽ J < #I#ʽ /F#ʽ +# F-ʽ 1#2#F-ʽ 8 8 H#ʽ & FXʽ # ʽ <+G82# ʽ H J

&JJJJ X#Xʽ 9 2ʽ +# ʽ I8J #G 2# ʽ 8X J ʽ <8+ʽ HG F ʽ *#2#F ʽ 8 8 H#ʽ ʽ + J ʽ 1#2# ʽ 8G#-ʽ &8-# +F

&JJJJ XXʽ 9 2ʽ $ 82#F ʽ G8- F ʽ ʽ HG ʽ 1#2# ʽ 8 8 H#ʽ 8ʽ ʽ +# ʽ 1#2# ʽ 8 8 H#ʽ J + ʽ +F ʽ # 8+#J8 -8 ʽ 8 ʽ J + ʽ F -ʽ # 8+#0ʽ J8 -8- ʽ 8 ʽ J + ʽ G+ -- +8-

3 , ʽ 9 2ʽ $+ 82#F ʽ G8- F ʽ ʽ 2 F E ʽ 1#2# ʽ + #ʽ JF ʽ & #-ʽ -8JF ʽ J + ʽ HG F ʽ *#2#F ʽ 8 8 H# ʽ F #ʽ J8J#E8+8ʽ <2F+# #

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< J8 ˢ # 8F E ˢ JF ˢ 2 F ˢ 8ˢ & I c-ˢ 8F ˢ + E#E#ˢ # #SF8ˢ
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GH 2 8ˢ &#JF ˢ F 8 ˢ 2##ˢ <FEˢ -8<F2JH+ 28ˢ F 8F F ˢ H0ˢ
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&F 2# ##' X8+J# F-' EFJ F-' ' +# ' 1#2# ' ' E' / #EG8 # - ' 8 ' I ##' 1 J #'
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G8--# ' <+w2#F ' JF ' 8#-' # ' SF ' JJ#-F-' 8- ' 2 1F-' JF ' -F#-' & #-' 8 '
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G # F-ˢ #w ˢ 8 ˢ <+w2#F ˢ G8--#--8 ˢ # ˢ 8 - <FEˢ #+JF2F ˢ 1#2# ˢ
+ E# ˢ 8 ˢ I#J# ˢ 8 - ˢ 8 ˢ # -88F F-ˢ 8- ˢ # ˢ 1FG ˢ F-SF8ˢ P 8+1 +E# ˢ # ˢ F ˢ
- + G8+ ˢ # G8 8 ˢ 18J#--8 ˢ & +F ˢ # #ˢ 8 ˢ J F--# ˢ 8 -ˢ # ˢ 8 +F ˢ F #0ˢ
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8 ' < - SF ' I 28E#X#--8 ' ! #8JF2 ' <+ ' &8 ' # F-' 2-8JH2 #'
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X8+J# F-' EFJ F-' ' F+JH E ' 1#2# ' +# #' JF ' #8 -# F-' 8 ' G8 #0'
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E2-8JH2 ' 8G8' #E#a' E' I# E#J ' -F 8 E ' E8' +8' #- ' J F--#'
+8G# 8 'F-SF8' E' 8 #' ; 2FJ+F ',H E#8' (' E 88' -F<8+I8 #--8 '
!# +#JF-' 8' 2 +E F-' 1#2#F-' F+JH E#' SF#' JJ#E8+F 'A 'G8 #-' -Fa' JF '
/2 ' 1#2#' 2-8J2#2 #' 8' +J ' 1#2#' JH #G8+ #' 8G8' 2#8 828'
8 J +#'8'<2F+# F-' G # F-' #E#a' ;8 # 2-8JH2 F-' E'E F '
,#'8'#' - + Y' +# #'J SF8+8 -' E*G8 -' # 8+ 8 -8-' G8 #a'8'& -'
&F 2# ##' 822F 'G8+8+8'J + '8F '# E8-# 8 8+' I - 8-' +8G# 8 ' -F '
8' +8JF- I#' +# F-' FX#2#F ' <+a 8+8' 8#@ X8+J# F-' # G8 -' JF ' +# '
1#2#' 8 8 H#' J - +' I#'J + ' & -' 8' I - I#' -- +# ' -8E' #I#'
F+JH EF-' 1#2#F-' +# #' G8 # ' 8' I - I#' SF8' J F--#' +8G# 8 '
F-SF8' "28 E 2 JH '8' F-SF8' 8++ ' # F 8 ' # 8#' 8' - F2#'
J < #I -'<2F+# -' 8' <+aE -' # G8 8-' E' J -<8J F ' +# #' F-SF8' ~_0'
' # '8'F-SF8' E' 2# # 8-' &F 2# ##'8' + ' 18J8+8' +# F-' 8' 0'
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#I# 8 '# #' 8' ' # F#'<+*82#F 'G8+8+8' +# F-' I82' ' & #-' I82' '
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'& #-' # ' J F--#' <+J G# ' -8E' JJ#-#' -F ' 2 1F-' 1#2#F-'
!# +#J#' #' 8' 1#2#F-' 8G#-' & +F ' 8' HG F!' 1#2#F-' &F G 222' *#2##
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JF '& F#-' 8' G8 #8 -# F-' JF+ ' -F#-' &FJ# F-' & #-' ' JF+ ' 2+ +E '
1#2#' F+JH E#' 8G8' G8 #a' J[' -F#-' 8GF2#-' 8' JF+ ' +# F-' J 8+I#-' -8JF+ '
E =88' #-#--8' 2-8JH2 F-' F J#F '8#' -8J+8 ' E' F J# EF+ ' #-#--8

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JJ28-# ' F #' , Y' 8 ' + F #8 -#F ' ,BY' JF ' -F#-' 8GF2#-' # F-' 8'
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+# F-' #<-8' +E#+28' E#-< 8 -' <+#82# c ' UF--# ' 2-8JH2 ' JF ' -F#-'
#E8 -# F-' FX#2#F ' <+U8 8+8' # ' J J##+-F' <+ 82##' F+J # E ' 1#2# ' +# #' JF '
-F#-' ! 822# # F-' <+# +##-' &FJ# F-' 8 ' JF ' 8GF2#-' & 2J --# +F ' JF '
+E82 JH ' 1#2# ' F+JH E#' H E8 ' & 2E ' J + ' 8' / '
SF F +' 1#2##-' +# #' 8 ' & JHF ' 1#2# ' 8 8 H#' +G '?' < +# 8+'
828JH + ' / # G 22 JH ' 2 + JH JH ' 8 ' +# F-' 8GF2#-' 811# 8' 8 ' G8G '
8 ' # ' -# F2' JF ' + ' J 88 -80 +# # ' J + ' <+# F '
8X8+J# F ' & +F ' EFJ ' ' EF F-' 1#2##-' 2 +F ' <+ 8E FF ' 2 JFF '
!8JF EF ' 8X8+J# F ' E#-< -F# ' 8 +F ' SF#' J 12#J F+#' 8+ ' JF ' 2 +E '
8G8' G8 # ' JF ' G8###8 -# F-' 8 ' JF ' E ' 1#2# ' &F 2 G#' 8G8' JJ#O'
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, Y' 8' +8' # 8+ #J ' +#8 2#' ,AY' + 22# ' UFX +G# 28 '
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& #- -F2 +F 8#? H E8# , ' +Y 1#2## J +# 8G#- J# 8 8
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EF ' +8G8-' 2# - ' F+J8+ J2#F-' 1#2#F-' F+J##' 8X' F-G+## ' EHF-0 J0'
JH2 ' 8X' ' F JH +F ' 8 ' & JH EF-' 1#2#F-' H 2E#' 8X' F-J+# -0'
8E8 -#- ' & 2EF-' 1#2#F-' &# + # ##' 8X' +J 0 I -J # - ' 8 ' JH #G8+ F-'
1#2#F-' & G #' 8X' + E##8'
X8+J# F' -F ' # ' E8-< -# ' ' +# ' # I # ' #<-8' -# F2' JF ' 1#2# ' -F '
F+JH E ' # 8+' #2# 8-' ' -F ' E' # F ' 8 -' EH + -' E' EF+ ' 1 J# + '
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F ' 8X' 8 ' SF E' & 8H EF-' 1#2#F-' 8UF- ' JF ' 1 + #--# ' 8X8+J# F'
#8 -#F ' +8J8--8+# ' ' 8#- ' #E' 8 # ' 1 J F ' F ' I +8 ' 8++ -' & +F '
8 ' G8 #8 -#F ' &8# E8' 8X< -F# ' 8#-' ' <2F+# F-' #-' 1F#--8' # 8 -'
G8 8 8-' -F ' -8+ I # F 8' & +F ' $+ 8E F ' +#- ' SF#' JJ#E8+8' <2F+# -'
8G8-' 8 ' <+# +# -' &FJ8- ' 8 ' # E8-# 8 8+' I - ' 8 ' J F+8 ## ' +J8- '
8 ' 82# - ' 8 ' JJ28-# -' &8# ' JF ' +82#SF##-' ! J +F ' 8 ' E#X# ' I J8' 2 @'
M' #-8+#J +E# ' <+ 8- # # ' +# # - ' E -' < 8- 8 ' 8 ' # F ' I #-' H E#8'
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-8JF ' 8+I ' # 8G+ ' 8X8+J# F-' -8' + 8 ' ' E F+F ' -#E8-' F '
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%! #'!' ' '+ ' , ' ' + # , ' #'
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999 '!' #2!' + ' ' ' ' ' ' ' # ' ' ' Z' G'
' ' ' !' 5 ' '+ ' , ' ' ' 5 G ' '
' 8 D !' ;) ' ' 8 ' ' , ' * , ' ' ' + ' Z' '
' ' ' , - ' , ' 8 ' # ' , ' #') ' '
' #' ' , ' 8 !

999 '''!' J ' ' ' # ' ' !

!' #2!' / ' / ' ' , ' ' , ' Z' ' '
8 ' ' ' 7 ' Z' ' ' ' , ' !

%d' #2!' / ' ' + , ' !') ' ' / '
/ ' ' # ' # ' A ' Y' ' # ' ') ' ' / '
' ' ' , ' ' # ' !' * ' / ' ' ' ' / G'
/ # !

!' # !' 94 ;' 78' ?7; 78' (' ' ';=' ?: 4;(5'(1' (:8 72'' (@ ' =8'
4' := 48' @27 ''5=8!

%d' # !' 12(<78' <'2'78' ' ';'' =;;'878' (: 5 2'8' ?71' ' 4' .=1(1!

999 !' #2!' ' ';78' <'2'58' 12(<'' 49'' 4' .4 5=' (58' 1(4' 4' (;3'
1(;78' 4'' 87;;4?' !']=?< 4?78' <' 78' ' ';'' =;;'878' (' <'2'=']457&<4 4'' '5'
' (55'(!' =5543(?78' <'2'78' '(5'' ?7;'' ;2(8841' 84;75G' 87@ (' 45(571'
4' '1@4 71' <(;'' '5' ;2(8841' 4<5458'71' 4' 87:14 75' 5(48' =5543(?''
' 5(48' ;2(88'8' 4<5';84!I

999 '''!' #2!' 1(18' 87;;4?'' (;31(;=' '5' 7:2'5'=!

!' #2!' G42'71' #'22?= 5(54584' 48 71' (' (5'8' 4' (' <'2'=' '(5''
;=5 (' <'2'71' (=2(5'' 4' (=2(5'' <'2'78' =;;'878' ':'!

%!' # !' ((;378' <'2'78' (= : 4 (;3'' <'2''' =5;G'(?'' <'2''' 424;3(5''
(8842245 8'8' ;=1 :78 78' '5' ?=1=' '5;458(' (' <'2'=' =55((5'' <'2''' =55437(5''
<'2''' 4554 3'' ;71' @27 ':78' =:'2':78' ;=1 :78 '8' ':'!' ' ((;:=' '8 ='
= ' '541' ?7;75' / G / !

Z ! ! / ! ! ?

&%! #2 @ !
> ; ### #2! + #) 8 Z 8 # #
5 , Z # # , # #'# , Z 5 , G
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X #X #2! ' / # , &
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/ T Z 8 G ' # G # !
+# #2! / ' , , G# # # -
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w # # , ' , # # !
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w % , % # 8 , , - - #
! 8 w % ,) ' !

%! # ! (;2' '(;(;378 4 5(7:2'5'' @=8 0(=2?71!
% ! #2! 94 ;' 78 ;71 =5(2?= I '(5 72 ('?'(1 4 72 (
4 '(1 (? 4 5((5= 71'4 (45'458'71 (:8 72' =:8'?48 <'2' (=25(1:'
4 ':7 71 8771 ((5'8! 455<(=2(?'78 I 7'2 =4 (=1=5''4=:''!
> #X #2! 7 4?(;378 14 (3L =: '54 ::('(1 124;45841':(
@4 '1!
#2! (' ' (8 7 ;4 (I '(5 .4 '8 O':4 5'(4!
#2! =5(2?78 2:78 I '(5 =;;'878 (: =?= I ='= .4 4
=55(;'(4 4 := &8(;4 (1@ ?= ('=5'8 498;'878 (: 4=!
94 ;' 78 ?7; 78 (<'2'= (=25(1: '5& (22'(1 ;=1:788' 4&
'=541 (7:2'5'= 21(5'(1 ?=544 ;=(; 78 <74 ' (;31(;G'78 <'2'78
.4 '5(2?' .49 (5= 71 (<28' 4 72 (1(4 4 <'2'78 (=25(1: .4 571
(5= 71 =: '574 ' @=8 471!
#2! 42271 '5 458 '5 4 =55;3(?71<'2'71 '(5'4 I =5= 71
.4 41 =55(;'(4 4 = ?42:(4378 <'2'78 3(?(4 <''' '(5 (@(':78
=55(;3 458'71 ;(8 (1= ' ;=5 (<'2'71 '(5 4 ;=5 (3= (=5'(1
67'(49@72878 <7' 4 =1=5'(@4 =5543(?7 (! (

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ˁ # , ˁŽ * # , ˁ ˁ I f ˁ# ˁ ˁ& ˁ ; , ˁ# ˁ # ˁ
75& '&2'(!
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ˁ# ˁ #ˁ ;) #ˁŽ / ˁ7 , ˁŽ # ˁ ˁ !ˁ
/ ˁ ˁ 8 , ˁ / , ˁ K ˁŽ ' !ˁ !ˁ ' ˁ
/ , ˁ7 ˁŽ / G / - ˁŽ ˁ ' # ˁ# ˁ , ˁ ˁ / , ˁ
K #ˁ wˁ ˁ , ˁ ˁ# ˁ ˁ ˁ !
'!ˁ #2 ˁ 7 ˁ ' ˁ # ˁ5 ˁ ˁ+ ˁŽ + ˁ
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%''!ˁ #2!ˁ) ˁ !ˁ) ˁ # ˁ # ˁ / ˁ #!)ˁ
+ # ˁŽ , ˁ ˁ) ˁ ˁ ' , ˁŽ ˁ5 , ˁ ˁ# ˁ
ˁ& G / ˁ# ˁ # ˁ ˁ ˁ ˁ8 ˁŽ ˁ ˁ ˁ ˁ !ˁ
+ # ˁ ˁ ˁ8 ˁ ˁ # ˁ ˁ# ˁ #ˁ / # ˁ # ˁ !
% ' ' ' ˁ #2!ˁ % , ˁ% #ˁ ˁ8 ˁ ˁ , ˁ)

%!ˁ #2!ˁ 94 ;' ''8ˁ ?7; 78ˁ (ˁ<'2'=ˁ (=25(1:ˁˁ 4ˁ (ˁ] '2?(& (';'=ˁ ;71ˁ
(5'8ˁ (45'458':78ˁ 4ˁ 88= '458':78ˁ =1=5'(1ˁ 4ˁ 124;3(1ˁ ?=544ˁ
;=1:788'8845ˁ ;41ˁ (2' '4584 (!
%!ˁ #2!ˁ 94 ;' 78ˁ ?7; 78ˁ (ˁ 7 ;3(?=ˁ I '(5ˁ = ;=1 =(5'ˁ (:8 72'ˁ
@ (4?(8ˁ '5?4ˁ 4ˁ ;=1:788'ˁ (12' '(1ˁ 4ˁ '22& 45= ((ˁ 4ˁ =;;'?'ˁ @27 ''5=8ˁ
8'172!ˁ (82'71ˁ '5 4ˁ 7:?(24 3471ˁ %';('71ˁ (';''ˁ 4ˁ 7 ;3(?71ˁ I
(=284(;32(5ˁ %';('71ˁ '55'(5ˁˁ 4ˁ =271: 4ˁ 4ˁ ;71ˁ (L ':78ˁ 4ˁ %'; = '(ˁ
@((ˁ48ˁ @4ˁ %';('71ˁ !ˁ (';''ˁ 14?'(5 4ˁ h;72=ˁ 487ˁ ' (7ˁ @27 '1ˁˁ =;;'8ˁˁ
<7; '5ˁ ':'!
% !ˁ #2!ˁ 2(5578ˁ =5(8 4 ''ˁ 7; =ˁ 0':41458'8ˁ 0'8 = ';78ˁ 4ˁ =4 ';78ˁ
=:'' !
% ' ' !ˁ #2!ˁ =5;3(?ˁ I =55;3(?(ˁ .49ˁ = (5(;3 458'8& (8842' 4ˁ =:'' !ˁ
94 ;' 78ˁ 4ˁ 2(88'8ˁ ;71ˁ '(1' '=ˁ<'2'=ˁ (=25(1:ˁˁ 4ˁ ;71ˁ (5'8ˁ 7:2'5''ˁ
(8 (4 75ˁ 5'8& (3(1ˁ ?=544ˁ 87@4 45'884ˁ <'2'78ˁ '(5ˁˁ 4ˁ8 (41ˁ<4;'884ˁ
4=11!ˁ 94 ;' 78ˁ ;71ˁ <'2'=ˁ '(5ˁˁ (?ˁ '5?'; (1ˁ 87145?(1ˁ ?4ˁ '5;7 8'=''4ˁ
'8 (ˁ (8 ('ˁ = (1ˁ (45'(1!
% !ˁ #2!ˁ = ?42:(;378ˁ <'2'78ˁ 3(? 4ˁˁ <'2'ˁˁ '(5ˁˁ ?79'ˁ '(1' '71

_K !ˢ ! / ! !

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ˢ# ˢ !ˢ) ˢ ˢ8 ˢ , ˢ #ˢ , ˢ = Iˢ# ˢ # ˢ ˢ ˢ
8 ˢ# ˢ , ˢ ˢ !ˢ # ˢ / , ˢ , ˢ xˢ # , ˢ ˢ
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ˢ #ˢ) ˢZ # ˢZ ˢ% ˢZ % ˢ7 !

x ˢ #2!ˢ / ˢ , , ˢ ˢ ˢ ! ! / ˢ !ˢ 8 ˢ
ˢ ˢ) , !ˢ) ˢ ˢ8 ˢ ˢ ˢ ˢ !ˢ ' , ˢ# ˢ
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x# ˢ #2!ˢ + # ˢ ˢ !ˢ / , ˢZ ˢ % !ˢ !ˢ 8 ˢ ˢ ' ˢ
ˢ #ˢ / G G ˢwˢ# ˢ # ˢ ˢ / ˢ# ˢ ˢ# ˢ ˢ ˢ
, ˢ ˢ, ˢ ˢ , ˢ / ˢZ# ˢ # ˢ ˢ , ˢ ˢ !

<'2'71ˢ (=25(1:'ˢ ;71ˢ #(45'458':78ˢ 4ˢ 88= '458':78ˢ 4ˢ (5'8ˢ 7:2'5''ˢ =1=5'(1ˢ 4ˢ ;=1:7884 ''5ˢ 1(5(1ˢ @(41ˢ 2(5' '4ˢ =1=5'^ˢ 78674ˢ '14 ';71ˢ4ˢ ;=1:788'ˢ] 7:4 5(=ˢ 67"ˢ <7'ˢ '5ˢ '14 ';=ˢ 1'8878ˢ (:ˢ I '(5=ˢ =@'?71ˢ @ 84ˢ '1= 4ˢ494 ;' 78!ˢ . 4?'4 4ˢ = ?42:(;378ˢ I '(5ˢ 4ˢ (45'45848ˢ 67"ˢ ;71ˢ 4=ˢ <74 4ˢ 4 =ˢ ?=544ˢ =!: '('ˢ 4'8ˢ =5543(?78ˢ <'2'78ˢ '(5H (@7? 1=5 41ˢ ='ˢ4ˢ '; = '(ˢ@((ˢ48ˢ?4ˢ<'2'=ˢ '(5'ˢ 4ˢ =;;'8"ˢ 875ˢ ':"ˢ I ' ?(ˢL';('78ˢ 2:4'ˢ4ˢ .' :(?(578ˢ<'2'78ˢ =5;(54"ˢ . 49ˢ 2'^!

>ˢ #2!ˢ (?(= '78ˢ494 ;' 78ˢ ?7; 78ˢ (ˢ '(1' '=ˢ <'2'uˢ (=25(1:"ˢ =1=5'(1ˢ ;=1:788'ˢ ;48ˢ 4ˢ 175'145 (ˢ 4ˢ 75?'5(8ˢ 4'?45848ˢ 4ˢ ;41ˢ (4?ˢ (5!

!ˢ #2!ˢ =117 ('=ˢ ::(71ˢ '5ˢ ?1(;3(ˢ 541@4ˢ 7178;(;378ˢ I = =?(5ˢ'5ˢ2=;71ˢ 7:?(24 :4'!ˢ =554:(?78ˢ<'2'78ˢ '(5"ˢ *' 'ˢ '5ˢ (8 (ˢ <'2'"ˢ (=25(1:'ˢ 67"ˢ ?4?'ˢ 1((' (8ˢ4ˢ 48ˢ @ 4 '=8(8ˢ@27 '1(8ˢ4'!

x# ˢ #2!ˢ 94 ;' 78ˢ;71ˢ I =5=ˢ 4ˢ ;71ˢ = ?42:(;3=ˢ I '(5ˢ =S 1=5'(1ˢ ;=1:788'ˢ #'22&?(27(1ˢ4ˢ?48 79'ˢ ;41ˢ '554= (?'84ˢ <75?' 78ˢ 4ˢ 1(5?7;(415ˢ (21=548ˢ 67"ˢ<74 4ˢ '5ˢ%' ('=ˢ '554= (?'(4ˢ 4ˢ 87<'<=;(4&

' ' ') ' !' ' , ' ' ' ' ' ' # ' #' ' '
Z#4 ' , ' ' ' # !
9'''!' #2!' / ' !') ' # ' !' ' ' W') '
' #!2V + # ' '% !' !' ' W' ' ' ' , ' # ' # '
' W' # ' ' ')
9' !' #2!') , ' / a , ' K !' #!)) !' !' 8 '
8 ' # ' ' ' F' # ' W' ' ' ' ' ' ' # '
' , ' ' ' , ' ' # ' ' ' ' +!' + !' % ' ' % #'
' 8 ' '# , ' # ' ' !
9 !' #2!' / !' !' ' W' / !' ' 8 ' 2' # ' ' ' !' '
!' 7 ' '5' %' ('8 '8!
9 '!' 92 ' % ' ' ' # ' ; ' ' ' , ' ' % G'
, ' J ' 8 ' W' ' ' ' , ' ' ' !' / , ' ' # G'
' ' W' ' # ' !
% !' #2!' % !' !' 8 !' # ' ' ' W') ' ' ' ,

75 ' %' ('71' @=8 4(!) 7 ;3(?78' <'2'78' '(1' '' <'2'' (=2''(1 :' (58' '
'5' (55'(1 ' 4 ' (7<4 ' ':7 71' '5?4' 4 ' '; = '(1' =: '54 ' ?4' <'2'=' .4 '5(2?H!
9 1 !' #2!' (3(2' I =5;3(?' .49' (;3= 71' 4 ' 78 (2'8' <2':4 5';4'
=:'' !' 94 ;' 78' ;71' = ?42:(;3=' Y I '(5' 4 ' ;71' <'2'=' %2(=25(5':' ' ;='5&
:788' ' '14 ';71 ' 4 ' @ =<4; '875 ' @=8 4(' 7(;3('(1!
X#I ' #2!' 7:?(24 3478' %';('78' (';'' =:'' !' =55;3(?78' <'2'78
'(5' ==14' ' .49' =1=5'84G' 49@72878' 4' 4 5=' ' ' ' ' .=1(1' '5' @4 4 '&
5('=541 ' 4 ' =:'' ' ':' @=8 ' @445' 45 '(1 ' '5' =5(8 4 '=' !' 4@3(5'!' = ?42&
:(;378' <'2'78' 2'(?84' <''' '(5' =: '54 ' 4 571' =1=5' 4!
%!' #2!' 27(51(;5=8'(' 4 ' 27(5<4 (' 45?(5' h8 (4' @4 ' =?71'
I.7(;' t;!' ' ' ' ' ' # !
% !' #2!' 4;7 '(8' B8' 4' @' 578C' 99 ' 75;'(71' (7 '' (?' (' ('
= ?42:(;3=' I '(5' 4 ' (' <'2'=' (=25(1 :' '2Uu?3=' I =5= ' 4(' ;=5?' '=54' 7 '
(79'2'(' 87:1'5'8 (4 ' 4'8' 4 ' '@8' 4' ' B@(;4' 541@4' =p 458' (' 4 ' ?4<458' (' '5' ('
('5674!C
9 ''!' #2!' = ?42:(;378' I '(5& .49' =1=5'U' 4 ' '(1' '78' <'2'78
1'

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, Z 5 , 4 # # / # # !/ ,- , Z # , / , # / Z ! / % # 4 # + # ! # 8 w # # / # / # , # % # #- ! / , # / ! # / i , ! Z 8 Z # , Z # / # !

99! #2! % ! ! 8 # , 2# # 8 Z # # + # w) G , # # !) ! , # 4 5) , , ! / 5 # , Z !

99''! #2) , # # Z & # Z , * , - / , ! !

(=25(1:' ;71 (45'458':78 4 (5'8 7:2'5'' @ =<';'8;75 7 =55(;'(1 :4227 1 4 4 4 4 @ (42'71 4 ' =?78 I =5= ;=5 (4=8 4 =;;'878 48 ': =?3''8 I =5= . 49 '((?'(G 75;=8(8 4 @27 '1 5=:'248 (2''! 542'71 (1@ @(27?=8 ?54458'8 @4 =?37 1 <'2'7'5 2'7 '&@4 ' ' <'2' =?3' <'2' 845'8 4 (22 I.7(; .4 41 4<5'(4 8 '@(5 4 (4 (3=1'571 (8 (5 '71 =55(;'(1 ;=5 (.4 41 =55(;'(4 7: =;;'878 48 =?378 O(8 (4&<4 4(4 <'2'78 3(?(4 67'&(2: I =5= . 49 =55(;'(4! (48 =55(;3 458'71 @4 =1=5'45848 4 4<545848 4 (45'45848 4 (8 ('= = '78 = '5;'(8 @=8 4(!

! #2! = ?42:(;378 I '(5 ' ' (45'(1 4 (:8 72' 2(?'71 '(5' 4 49'2271 .4 '8 (9=571 4 48 @ 4 '@8(8 @27 '1(8 (2'(8 ('(1' '= <'2'= (=25(1: .4 4 (45'(8! 7 ;3(?78 <'2'78 '(1' ' <'2' (=25(1: =:'' '5 7:2'5'=!]457&<4 478 <'2'78 '(1' ' <'2' (=25(1: =;;'878 (<'2'= (3(2? ?4] (2245 ''8 4 (84@ 45 '=7(2 O':4 5'(!

! #2! '(1' '78 <'2'78 (=25(1: .49 (45'(8 4 :7?71 4 7:2'5'' =;;'878 '5 @ (82'= ? ('5 '?'((=5;7:(= I (=284(;32(5

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' ' Z ' 5 ' K # ! 7 # ' # ' G ' # ' Z
' ' # , ' Z ' 5 , ' ' ! % ' ! 8 ' ' ' '
* # , '# '# , '# ' * # ' w ' ' # ' , ' / ' # ' #
' # ' #' , ' ' Z # , , ' w , # ' # ' ' # ' # ' # '
' w # ' ' !

99'''! # ' % # ' / , ' ! ' { ! # ' % ' w
5 ' ' # ' # ' 5 ' 4 ' Z) ' ') ' ' 5 '
K ! # ' * ' ' % , ' ! 8 ' w # ' ' w
, # ' ' w - ' ' ' w # ' ' ! / , ' !
' ! # ' % ' , ' ' ' ' , ' ' ! '
' ' ! ' ! ' , ! ' ' ' , ' ' ' # ' '
/ G ! ' ' ' / G ! ' % ! ! 8 ' ' ' ' / # '
' ' ' # ' ' ' ' ' ' ') ' ' ' # '
, ' # ' ' ' ' ' ' / ' w , i ') !

99' ! #2! + # ' ' % ! ! 8 ' ' # ' ' # ' ' # '
#' ' ' ' ' ' w ' 5 # ' w ' , ' 8 # ' #

.4 4' '?'(8' 4 ' ('] '2?(& (';'=' I 4 (2' .4 4' 2' 1 ' 7 1' (45'(4' 4 ' @27 ' 1''
(45'458'7 1' 4 ' (5= 7 1' ;7 1' 4'8! = ?42:(;378' I '(5' ' ' ' 88= '(1'
4 ' =: '57' ' :8'?48' 88= '44' 4 ' '5?4' ' ' ' (?' '5842(;3'=8' 4 ' ;=1:788' ' 4=8'
?=544' (?'?4 '5 ' =:8'?48' 7:2'5'458'7 1' 4 ' D24 57 1' 7:2'5'' 4'!

x x ### ' #2! ' %454 75 ' ''2'78' =5;7:('' I (=284;32(5' .49' 41= '^'
4 '] =? %4?78' <'2'78' .4 '5(2?H' .49' (5= 7 1' 7:2'5'' ' 4 ' =5(2?78' <'2'78'
=55;2'(?'' <'2''] '2?84& (';'' ' .49' 88= '84' '5' ;(8 (' = ?42:(;3'' I '(5'
4 ' @ (48 ' 4 75 ' =:4?'45 '(1' 4 ' =:8'?48' B (?'?4 75 C' 4' ' 4 ' 4= 7 1' 1(578'
?4?4 75 ' '5' 1(578' 4G78' 4 ' 87@ 4 1 7 1' ?=1'5'7 1' 87@ (' 84'@8=8! =5;7:('
I (=284;32(5' .49' 41= '(4' =;;'878' (' <'2'=' < ('8' 87' ' '! 4! (' 7 ;4 (;3='
I (=284;32(5' ?=2=84' ;(@7' 4G78' @4' '1' (:2(7 1' 48' (' 27(5&1(;&5=8'('
4 ' 84@72 7 1' '5' 4554= (' (' = ?42:(;3=' I '(5' ' <4 '(' '' (5 4' = 5'5';(1'
(8;3(24 1! ' 48 ' 7 7 1' 48' '?4 1' ;(@7' =1'5';(' 846745 4' ;7 1' ?4;4 5'
75;''8' (7 '' 8' 1 72' @ ' ' 7 4 1' ! '((5'' 4 ' 1 ' (;72(' 4'!

99' ! #2! 94 ;' 78' ?7; 78' (' = ?42:4;3=' I '(5' (?' '5?'; (1'
87 1 45?(1' ?4' @(';'?'=' '8 = ' (8 (' ' = '45 (24 1' '?'(1' 4 '] (2245 '(1

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ˢ ˢ ˢ # ˢ !ˢ 5 ˢ !ˢ ' ˢ ˢ ˢ ˢ # ˢ
% , !ˢ !ˢ 8 !
99 !ˢ #2!ˢ + # ˢ ˢ % !ˢ !ˢ 8 !ˢ ˢ / - ˢ # ˢ #ˢ # ˢ !ˢ / =ˢ
, ˢ # ˢ / ˢ Z -!ˢ ˢ Z , ˢ 8 ˢ 2 !ˢ) ˢ !ˢ
' , ˢ ˢ & w2 ˢ $ E (ˢ #!ˢ 5 ˢ !ˢ ˢ
ˢ ˢ ˢ , ˢ ˢ ˢ ˢ % ,!ˢ !ˢ 8 ˢ %ˢ ˢ ˢ
, ˢ , ˢ ˢ ˢ ˢ ˢ ˢ ˢ ˢ # ˢ # ˢ ˢ E ˢ Z # ˢ
G ˢ ˢ # , ˢ ˢ ' !ˢ !ˢ % !ˢ !ˢ 8 !
99 '!ˢ #2ˢ ' ˢ !ˢ ' !ˢ , ˢ ˢ , ˢ ˢ / ˢ
/ ˢ ˢ ˢ ˢ ' ˢ !ˢ ˢ # ˢ 5 4 #ˢ Z ˢ , ˢ
ˢ 1ˢ a ˢ ˢ ˢ / 4 ˢ ˢ ' !ˢ ˢ / , !ˢ
ˢ !ˢ / , ˢ # ˢ / ˢ ˢ # , ˢ ˢ % , ˢ !ˢ
8 ˢ Z ˢ # ˢ ˢ ˢ Z ˢ ˢ # , ˢ ˢ , ˢ !
%ˢ' !ˢ #2!ˢ & # wˢ !ˢ 7 # # ˢ , % ,!ˢ !ˢ 8 2 ˢ ˢ #

4ˢ 4 '45848ˢ ' (ˢ 7 1767(1ˢ (5 4(ˢ ;=5 4 ((4<7'8845 '5 =1=5'(1ˢ@ (4?8ˢ
1(G= 48?' ' '(714ˢ(145 = 71ˢ67(1ˢ (:8 72' ˢ84;71ˢ 4?'458ˢ (:ˢ '5;7 8'=54ˢ
494 ;' 78ˢ '8 '(8!) :8'?48ˢ '?'Tˢ @=8 4(ˢ (?' 4ˢ875ˢ '3ˢ (8 (ˢ '(5'!
%!ˢ #2!ˢ 94 ;' 78ˢ ;71ˢ = ?42:(;3=ˢ I '(5ˢ =55(;'(5'ˢ (7<4 ˢ
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; ˢ 3 - ' . ˢ F-SF8ˢ Eˢ + -# F ˢ ! ˢ $ +#J##ˢ <#ˢ ˢ J + # 8ˢ I8+ ˢ & #ˢ
- - - - - . ' 8 (< Yˢ $ +#J#F-ˢ +JH#8<#-J <o-ˢ # 8+ 8 -#F ˢ ˢ 8 #-ˢ -F8ˢ
JXX ˢ E#8ˢ X I # ˢ 9 2ˢ <+## ˢ SF#8 I # ˢ 0
ˢ A ˢ 1# ##1ˢ 9 2ˢ +-ˢ <#-J <#ˢ Y !ˢ,BYˢ
U ˢ JJJJˢ A ˢ #U ˢ 9 2ˢ ˢ !ˢ ˢ +8G +8ˢ # J#<#
2 ˢ JJJJˢ ˢ 9 ˢ ˢ ˢ / # ˢ <-ˢ / ˢ <#-J <F-ˢ 8+0ˢ
8 -#- mˢ , . Yˢ 9 9
^ Fˢ JJJJˢ ˢ 4 ˢ 9 ˢ # I # -ˢ +!ˢ / ˢ #- ,1#Yˢ 9 9
+4 ˢ JJJJˢ K/ˢ , ˢ J!ˢ / # ˢ 8 ˢ F- ˢ ,_Y
! ˢ JJJJˢ K/ˢ # ˢ 9 ˢ / ˢ , ˢ / #!ˢ 9
ˢ JJJJˢ K/ˢ .ˢ 9 ˢ 8 ˢ ˢ 8 #ˢ ## ˢ / ˢ 0 ˢ 8- ˢ,CYˢ 8 ˢ
G ˢ 8 E#F-ˢ - 8+# ˢ 2 #ˢ GG8+#-ˢ ! J+#ˢ 2 <#EF mˢ SF#8 I # ˢ 9 ˢ
9 9 9
!& #1# ˢ 9 ˢ & ++ # # ˢ +!ˢ 8 # ˢ #+G# #- ,LYˢ
U! 2#ˢ !& 1# ˢ 9 2ˢ 8 8EcJ F-ˢ -ˢ _ ˢ $ 8+ˢ JH +F ˢ H Jˢ 8 < +8ˢ J2 0

, Yˢ 8 ˢ $ < ˢ ## ˢ ˢ ˢ BK2 ˢ 8+G ˢ 8Xˢ H#-ˢ 2# F- ˢ 8Xˢ # 8+ #wˢ 8 G +#F-ˢ (@ 78ˢ 48 ˢ ˢ
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-8 # ˢ ; #E8ˢ 2ˢ 2 ˢ Eˢ B . ! ˢ -
,AYˢ ˢ +G# 8ˢ Mˢ & ˢ / #ˢ Q@ 2 #8 -8-ˢ 28-ˢ Eˢ ˢ BKA ˢ w+wˢ J F #-ˢ BK ˢ Mˢ
5 # G # ! >ˢ , Yˢ ++#G8ˢ F T+ -ˢ 8Xˢ 2 #8 -# F-ˢ Eˢ ˢ BLA
,BYˢ 2ˢ 2 ˢ Eˢ ˢ . ˢ , . Yˢ 18+ˢ 2ˢ 2 ˢ Eˢ ˢ . K
,KYˢ ; #E8ˢ 2ˢ 2 ˢ Eˢ ˢ . ˢ w+wˢ J ˢ . A ˢ SF ˢ &818J F-ˢ ! 2#-ˢ J #G#--8ˢ ++ F+
,_Yˢ 2 2 ˢ Eˢ ˢ . . ˢ 8 82#F- E . L ˢ ,CYˢ #E ˢ Eˢ . C
,LYˢ ˢ +8J 8ˢ Eˢ ˢ . A ˢ 18+ˢ ˢ Eˢ ˢ . K ˢ # ˢ < ˢ 2K

7' ! O7G78 ' (1 ' 7 ':''8 Z 1' (;72'8 2= '=8(1 :4(78 8; ':' (@( ] 4S = '78! #!#!# !#!#!

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5J , L1 #! % ' # , W 37(:(2'78 (2 =&(8@4 4 5((55'8 9'!B , C #!#!#!#!#!#!

l <@J #! (' ' (8 !] 4 = '' (@4! #!#!#!

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G(, LJ #! / /) * 2 / , ! 7 # W) Z + T Z) W / W (G2'71 724? 4 5458= ;=5 ('(1' '71 <'2'71 4 4=2''! 4 78 4 =5(2?78 ?7= <'2' ;(4 4 '514 4 <''78 4& 5(' 4 ('=5(?'78 <'2'78 7(;3' 4 4? <'2'78 (;3(;3 .49 =55(;'T '; = 48 4 (5 @4 = ('=548 / , G ! $m(#!

!(1 E 'J #2! (88('= =\(1:4&;3'\\ (? 5872U1 (B C #!#'!

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B C 55(2! 2 ! (? (55! - 4 - -!
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B C :'? (? (55! - 3 '8 - 4 4; 4 7 49 ;2'@8':78 4 (2''8 5= '8 ;3 =5';'8 8'172 ;=22('8 1(5'<48 71 48 ! B C :'? (? (55! - ! B-C :'? (? (55! -- 4 ---!
B C :'? (? (55! --Z! BZC :'?! -- --Z 4 - ,! B C :'?! --Z 4 - !
BMC :'?! --M 4 ' ! B C :'? - , (4 (8 ;=1! - !
B C :'?! - 4 -Z ! B ,C :'? -
B C :'?! ! 4 1=58 = 1('5= '?4 5= ! ! @! '':! 5 1('54 =?';'8 = =5'(5 :(84 24& 75 7 (55= (((? ! =;41 K + # 8E + D D - 1 # # #$

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+ ' A& ' by 1 9 ' / 8+GF-') G -# ' SF+' 1F E I# ' / , ' SF#0
8 I # , Y
+ !' A& ' %1 9 ' ' ' 2 ' -' / G G ' SF#8 I# ' ,BY'
@ ' f6' S' 4 9 ' # #F ' +8G #' ' !' !' / ' 8 #' '
$+w2#F ' I#w' & ##m' # ' SF ' J8J#E# ' / ' , ' ') ' ' SF ' / '
/ ' 2 F' ' ' !' ' ' ' I#J +' 8+ ') # '
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' ' ' 9 ' e " A 2 ' 8 A !$c(' 9 9 9 9 9 9
A& v ' b ' 9 ' / ' ' # ' J 8' & # #J ' 8 #-' -F8' ' XX I##'
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.y ' A& # ' # [' 9 ' ' H J' ' 8 F-' " +8G +#F-' SF#8 I# ' ! J#2#J8 ' # ' & 8' I '
' & y# #J8' J + # #-' F ' 8E ' E#J# ' # ' #- +# ' -F ' 8 F-' I8+ '
" +8G +#F-' X I#' #-' _' 8 -# F-' I# ' _' E#8 F-' X ' +8X# ' JJ28-# ' #' '
' F E#' ; ' & { J 8 I ,LY
L 4' A& #U+ ' | ' 9 ' FGF2 # ' fW ; ' F2+ , ' !' / ' ' <8+m
' + !' : F#8-' / #' A , !b`C(' 9
e 2c ' A& U+ ' H#Z 9 2 ' / # ' -' E8' 8 ' SF#8 I# ' / ' + '
$#w2#F ' ! 28 8 -8m' # ' SF ' AD) ' !' 8X' # '
I#J +' 1F# ,2' Y 9 9
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A' ' ' ' E"' - # ' - ' @8 ' # #' + # ' ' ' ' ' $ ' ' $ ' ' - ' $ '
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79 (' (L =2= '7 1' (5; = 7 1 ' , ' (55" (:' = : ' 7' (' ; '" (?' = : ' 7 1' '(1 ' '" <'2'" 4 4=2''!
B2C' 55(2!' 2 !' (?' (55!' -Z !' B , C' : !' 4 ' (?' (55 ' -ZZ!' B C' : !' - !
B C' : !' - !' B - C' : !' - !' B C' : !' - !
BZC' 4' (55=' = : ' 7(2" !' =27 (: A' '?4' 6''A' ?'; (' 875 ' '(=24 = (!' @!' 92 ' 5= !' - ' 4 ' 55(2!' 2 !' (?'
(55!' -M ' @! , ' 4 ' ' 5= !' !' B C' 55(2!' 2 !' (?' (55!' -MZ!
BMC' : '' ' !'] 4 = '78' (55=' !' 55(2!' 2 !' @!' , ' 3= !' ' 4 ' (?' (55!' -' 4 ' ZI' J =5<'4 '
5= !' ' @!' M ' ' : '? ' 4 ' =3(55'8' '(; =5" @78' ?4' %' ('] 4 = '" ! !
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| !

" !' ' +8G I# ' ##-' J ' , 2Y' ! 8JF E '
"+8G +#F-' $ < ' #G+ I# ' E' & ' #J ' + G 8' #1cXJ# ' - F# ' -8J28 '
8' JJ28-#8' J <F ' 8--8' #F ' JJ28-# +F ' SF# ' JJ28-# ' - #0'
< 2# ' <+# ' JJ28-# +F ' -8' #F ' -J+# 8 ' , AY
' !' "#' ' A ' ' 5 , , !$ 2(' " " " " '
!& Z 9 ' : F#8-' / ' !' , BY
!& <<<' # #1' 9 ' +-' 8E ' 22 2 ' EE82J ' +8G +8' # J#<# ' ,dY' 9 9'
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3-(; (' ' !7 ' SF#8 I # , CY' 9 9
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+ !' <8+' G 22F ' JwJF ' 1#2#F ' ! J 2 # m') ' ' ' '
+8G +8' # J#<# , LY' 9 9 9
#22 ' $ c4 9 ' ' ' ' ' # A' !8 ' n + ' #W' 1#2# '
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+ H8 -8' G8- F ' ' & 2E ' J + ' G 22F m' F #' J8J#E# ' / # ' '
' + !' ,' Y' 9 ' 9 ' 9
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3-' ' 9)' #J' EF # F+' SF#-' +8G I# ' < - ') ' ' ; G'
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B C' 55(2!' 2 !' ' 4 ' 5= !' ' : ! B , C' : !' @(!' Z ' 5= !' , !'
B C' : !' (55!' ' u ' @!' Z ' 5= !' , ! B C' : ! 2 ! , . Y' ' K
B C' : ! 2 !' BZC' : ! 2Z !
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K' ; ' ?' N' ' 5' 54@= ' 8' 4G78' =5(2?' , ?' ' 4?" 1 " <' 2' ' ' 87 1 1 (' 4G78' 8454 ; 78 ' 87 : ' 67= ' ' kgn ' ' 27 1'
K' ?4 ; 488' 884 ' 49' < ' 55(2' : 78' = : 84 (' 1 78!Q) 0R5 ; ' @(4 ' 884 ' 7 1 ' @4548' 84' 3(: 7' 884' (2' 7 1'
3= ' ' 1 ' 55(2' 7 (' =?' ; 4 1 ' (: ' 3= ; ' ?' >4 87 1 !) 4' (55=' = : ' 78' ! ' 8' 4' + ' ' ?4' 55(2!'
2 !' (?2' 55!' , ' 4 ' >U (' 8 !' (?' 475?4' 5' (55!' , ' (4 (~' ; =' 5!' , - ' 75?4' 884 ' 78 ' =2 (578 ' 4'
(2' " ; = ' 45?" !875 !' BMC' 55(2!' 2 !' (?' (55!' , Z !
, Y' : !' ' ' ' 4 ' ; =5<4 ' 5= !' (?' (55!' ' ?' @' !' B C' : !' ' 4 ' 5= ' ' : ' @!' !
B , C' : !' ' ' 5= !' !' " 87 ; ; 4884 75 ' \ ' 4 ' ' @(" @= 48 (4!
B' C' 4?(' 5(78' 48 ' (55=' Z , !' 55(2!' 2 !' @!' - , ' 5= !!' , !

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!& ## 9 7 # $ +F SF#8I c , Y ' Y A SF#8I# ,AY 9 9 9 9 9 9

!&J 1 ## 9 / ! ' , $ 2(9 9

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+ 4 A& nn . 92 5 + FF- 8- , . Y 9

1 U1 #1 9 + 2# - G 2" , / ! # 8 12 I F- <8- #- m) _ 8 `D" * 8G8- # 8+ # -m # F# -F _ 7 G 7 , _ 2## F2 # + F# -F , E / ! 8 12 I <8- 8 m ,KY 9 9 9 9

n ! 9 / 8 + D <8+m 7) / # 8+18J F- 1F# 7 +8G +8 # J#<# ,_Y 9 9 9 9

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o - H# 4 !! !D v8 , I8 # _ I G82#F+ -8JF F2# ,2 Y 9 9

!2 9 7 % _ 8 / # 8H 8X 8 0 +#-8 8 +8- 2 8UF- 1#2#F-m UFGF2 # -F ^ # # +8G +8 # J#0 <# ,22Y 9

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B C 55(2! 2 ! (? (55! XZ I 4 5= ! , (? (55! @! - ! B,C : ! - - @! - ! B C : ! -Z! B C 55(2! 2 ! (? (55! 2 @! - ! B-C : ! ' ' !! B C : ! 4 ! ZC : ! Z ! B C : ! ZM! BMC : ! ! B C : ! M ! + ,==Y ' 8 , Y ' 8 ' 8 ; G#- + ' 8 ' 8 2G J < 8 , Y 2 2 E _ , BY _ A , . Y _ B

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A&J & U Y.ˢ 9ˢ / # ˢ !ˢ 7 # ˢ ˢ % ˢ 8Xˢ 8 +#Wmˢ -F # ˢ
+ 8ˢ ˢ 7 # ˢ ˢ ' A ˢ +8GF +8ˢ # J#<# ,2Yˢ 9 9 9 9 9 9 9ˢ
2 1ˢ 3-ˢ # #4ˢ 9ˢ 8 G, ˢ ## ˢ $2F#ˢ ˢ ˢ A ˢ , ˢ _ˢ
ˢ # i ˢ ˢ ˢ ˢ ˢ Wˢ ˢ ˢ $2 [# ˢ <2F I # ˢ 822#-ˢ -F<+ ˢ ; E ˢ
< +I ˢ 8 ˢ <2F I # ˢ +G8 #ˢ -F<+ ˢ ; E ˢ G ˢ 8 ˢ <2F I # ˢ - GF# #-mˢ -F<+ ˢ
1 -- ˢ G8 +F ˢ _ ˢ # E8ˢ E#J# F+ˢ ˢ ˢ ˢ 7 # ˢ SF# ˢ F 8ˢ
F-ˢ 8- ˢ,AYˢ 9 9 9

% & ˢ A&J U$Uˢ · ˢ 9 2ˢ / ˢ $+ 2#F mˢ A ˢ # ˢ SF ˢ J8J#E# ˢ 7 # ˢ ˢ
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^ 2 ˢ !&J # ˢ 7 !ˢ & ˢ !ˢ ' A `2n ` ` ! 2 b (ˢ 9 9 9ˢ

^L2 ˢ !&J K/ ˢ 9ˢ ' ˢ ˢ 8 ˢ ˢ # ˢ 8Xˢ G8 # amˢ + FF-ˢ
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4ˢ A&J J z ˢ 9 2ˢ / ˢ ' #ˢ ˢ ˢ " #+ 2EF-ˢ # 8 -#-mˢ SF#8 I # ,KYˢ
9 9

9ˢ / ˢ ˢ ' #ˢ ˢ / ˢ ˢ SF ˢ / ˢ / ˢ

W &ˢ H 2ˢ 1#2#F-ˢ F+8 H G#ˢ 8Xˢ J# 8ˢ ˢ SF ˢ 2#8 82 ˢ H #2ˢ
<#ˢ ˢ # ˢ 8ˢ 8G# #-ˢ # 8 -#-mˢ + FF-ˢ 8- ˢ,_Yˢ 8E ˢ - <#8 -ˢ G2
+F ˢ SF#8 I # ,CYˢ 9 9

^ ˢ !&1 ˢ ˢ 9ˢ / ˢ ˢ + - ˢ G ˢ ˢ & -, ˢ $+) 2#F ˢ I E#ˢ IF2<#0ˢ
F ˢ # ˢ 8ˢ $+882#F ˢ # JH Emˢ F #ˢ J8J#E8+F ˢ F2 # ˢ,LY

A&1J ((Zˢ 9 2ˢ + ˢ / ˢ 8 ˢ ! H ˢ - 8+# ˢ 2F 0ˢ
+ Jmˢ SF#8 I # ,2 Yˢ 9 9 2

ˢ !&JJ # ˢ 9ˢ / ˢ ˢ 7 # ˢ ˢ ' ˢ 8Xˢ F# 8mˢ + FF-ˢ
8- ˢ ˢ , ,ˢ JEˢ 2 F-mˢ ˢ n ˢ ˢ ' A ˢ +8Xˢ / ˢ
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ˢ !& ˢ F# ˢ 9 2ˢ / ˢ ' # ˢ 7 # ˢ $+ 82#F ˢ <#ˢ +8G mˢ # ˢ SF ˢ J8J#0

B Cˢ : !ˢ 8!ˢ 2'ˢ 55(248ˢ 2 =5'458'7 (ˢ 3 =5=2= '(1ˢ (5 4 4 75ˢ (55'8ˢ ˢ A (1ˢ ;=1 17541ˢ
(55'8ˢ -!ˢ B Cˢ 55(2!ˢ 2 !ˢ (?ˢ (5=!ˢ Z Z!
B Cˢ : '?! Zˢ, !ˢ =ˢ 3ˢ 55(248ˢ A (1ˢ ;=1 15541ˢ (5 4 4 75 ˢ B5714 (5?=ˢ 5= (8ˢ #Cˢ (55'8ˢ -!) ˢ
=5<4 ˢ =24 ='5! @!ˢ 9 !ˢ 5= !ˢ M!ˢ B Cˢ : !ˢ Z, , !ˢ B Cˢ : !ˢ Z, !
B'Cˢ : !ˢ Z ˢ 4 ˢ 5= !ˢ ˢ @!ˢ , ˢ ' : '?!ˢ BZCˢ : '?!ˢ Z *@!ˢ -!
B?Cˢ 4ˢ (55=ˢ =: ' 7(24ˢ 4?(8ˢ '?4ˢ 55(2!ˢ 2 !ˢ ' : '?!ˢ @!ˢ - ˢ 5= !ˢ ˢ 75?4ˢ ;=58 (ˢ 4 1'5(884ˢ 0'8 = '(1ˢ
87((ˢ ; ;248'(8 '; ((ˢ (55=ˢ !ˢ Z ˢ A ('8ˢ -M ˢ 4<= : ''84ˢ (55= !ˢ Z !ˢ =5<4 5= !(?ˢ (55!ˢ 2Mˢ 87@ (!
BMCˢ 55(2!ˢ 2 !ˢ Z Z!ˢ B Cˢ : !ˢ Z !ˢ B Cˢ : !ˢ Z !

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UL ' A& ' [' 9 ' / ' ' F-' -J + # f I#+' - J #--#+ F-'
' >< ' SF#8I# ,AY 9 9 9 9 9 9 9 9

!&# ' K ' 9 ' I8-' # ' 8+8 I#-8 -F ' JF ' I#+#-' -F#-' ' ' / ' !
! ' ' ' ' ' ' 8 ' ' ' ' ' 7 ' ! ' ' 4 ! '
; ' ' ' ' ' ' x # ' ' ' ' ,! ' ; ' , ' '
8 ! -F<+ ' 2F J #- @ 8 F-' +8U8J F-' 8- ' # ' +8G# 8 ' +JH# # '
8 < +8 / # JH # 1#2## 8 2# 8G#-' 2#J2#88 ' +8-' E8 8-' 2FJ#J2# # ' 8UF-' J <# 8 '
8 ' . ' F J# +F ' < EF-' JFUF-SF8 E8 #-' 8 +F ' $ -# F-' 8- ' E8 -' 8 +F+ ' -F
<+ ' 2 +8 8 JH +8 -8 m, Y 9

+ ' !& ' ' ' 9 ' 7 # ' ! 7 '- ' ' ! ' ' ' / ' 8X
J#88 + FF-' 8- ' e

A& ' ' # # ' 9 ' ' F1+ G#F ') , G ' ' ' ' 2 ' !" '
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B C 55(2! 2 ! (? (55! Z , ' A A ;=1 ! Z ! ` 4 8' (8 (55= ! -!
B, C : ! Z ' A A ;=1 ! !
B C : ! Z- , ' A A ;=1 175'8 Z- ! ` 4 8' (8 48 (55= 71 ' , ' 67' : 78 55(248 3 '5 3=; ' (55= ?4S
;2((5?= G79 ' (' 5= (8 # ' A (1 ' ;=1 ! @ A;4?75 ! ' =5<4 '] ' (2?! =@= ! '8 ! , ' ; ! ' @ ! Z , !!
B C : ! Z- - ' A A ;=1 ! Z- ' 4 = 4 ' '5 3=; ' (55= ?4;2((5?= G79 (' 5= (8# ' 3 55(248 (5571 ' 3 '8 '
@ A;4?75 ' (55'8 , ! B-C : ! Z , ! %'?4 '5< (' (? (55! Z ' 5=
B' C : ! ' ! BZC : ! ZZ ' A A ;=1 ! ZZ ! B C : !ZZ ! BMC : !ZZZ!

+ !&J <# f f 9 2) H) 8X # 8+ # 8m
+ FF- 8- & 8 J8 8 + # 8 & # # , Y F E8 E#J F 8- @
M * V E ,
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+ ˢ ' # 22 -ˢ +8G#a ˢ 8ˢ J + ˢ G8=#8 -8-ˢ 8ˢ J + ˢ8X8+J# F ˢ 2#8 #G84ˢ
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,BY' ; #E8' SF 8' E8' w+ ' HF E ' 2#F ' - + +F 'E#J '-F '# '$+ 28G 8 #-'<'X'J -XI ' 8 ' -8S
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-#+ F2ʽ JF #ʽ # F2 #-ʽ ##22# F-ʽ #F ʽ $+ I# J# +F ʽ <+ 8-8+ # ʽ #- ʽ 8ʽ

JF ʽ 82-8JH 22 ʽ 1#2# ʽ & 2E#ʽ 8G8ʽ 8 +# 8 ʽ JF ʽ G # F-ʽ # 8+ #aʽ

-# #*# 8+ʽ JI# ʽ #<-#-ʽ F-SF8ʽ &F 2# #F ʽ J + ʽ 2#8 #G8 -ʽ I#+#J28-ʽ 8 ʽ 8 +F ʽ

822 +8- ʽ 8 ʽ J + ʽ 82 +E ʽ 1#2#F F+JH E#ʽ 8G8 ʽ G8 #- ʽ 8 8 # ʽ

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8 ʽ -F2 -ʽ 8 +F ʽ 8 ʽ 1#2# - ʽ JF ʽ J2#2 #- ʽ # ʽ 8 ʽ + 8G##-ʽ JJ#E8 #-ʽ !8<0ʽ

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8- ʽ F-SF8ʽ ʽ # 8+ #11# ʽ &8J8 ʽ J8 8 ʽ +#J +F ʽ JF ʽ 8#- ʽ I8 80ʽ

+F ʽ JF ʽ 8#-ʽ &F 2# #F ʽ " 8- F ʽ 8- ʽ <+ 2#F ʽ J+F8 F ʽ #+ EF ʽ J8+0ʽ

F ʽ J + ʽ 8 - ʽ JFUF-ʽ F22F ʽ -# #28ʽ I#-F ʽ 8- ʽ 8 ʽ ; 2E8ʽ E#F F+ ʽ J J8+0ʽ

ʽ <+ 8ʽ -8- Fʽ <+ 82##ʽ #- # -ʽ $ - SF ʽ 8--8 ʽ F2 ʽ 8 < +8ʽ #- #ʽ ,<+*82# 8-Yʽ

ʽ <+G82# ʽ #- ʽ ; #J +# ʽ < + ʽ 8- ʽ E8ʽ 2#8 #G8 #- ʽ 8 ʽ E8ʽ G8 #8 -# F- ʽ <8+ʽ I# ʽ

<+ 82##ʽ 8 ʽ -F<8+# +#-ʽ < 8 # 8 ʽ 8 ʽ EF+ 8ʽ 1 + # FE# #- ʽ # ʽ F ʽ JJ#E8+8 F+ʽ # ʽ 8 0ʽ

E8 ʽ 82 +E ʽ 1#2#F-ʽ F+JH E#ʽ 1#2##ʽ / # #ʽ 8Xʽ G8 # 8 ʽ 8 ʽ 1#2#F-ʽ + G +0ʽ

#ʽ 1####ʽ JF +#ʽ 8Xʽ +8G# #-ʽ / 2G# 8 ʽ 8 ʽ F* #ʽ 2##ʽ #28- ʽ JF ʽ F2 #0ʽ

FE# 8ʽ # G8 8ʽ G8 #8 -#F+ ʽ JF ʽ 8#- ʽ 8 ʽ JJ#-#ʽ -F ʽ # #ʽ E8ʽ 2#8 #G8 #-

!ʿ) Z

&## G 22ʿ 1#2 -ʿ #2 1#ʿ 8ʿ "#2J2 -0 # + ʿ1#2#F-ʿ "8 F018++8#ʿ 8ʿ !211+# Hʿ 1#2#F-ʿ
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8X8+J# Fʿ J8J#E8+F ʿ# #ʿ 8J#E#ʿ# #ʿ JF ʿ#- #-ʿ F+JH EF-ʿ 1#2#F-ʿ +# #ʿ +J #0ʿ
8Xʿ 1F F+F-ʿ # 8+ # 8ʿ 8ʿ +E82 JHʿ 8UF-ʿ 1#2#F-ʿ 8+#8-ʿ +J #0 8G#-ʿ #0ʿ
8+ #G8ʿ JF ʿ +#G# ʿ 8GF2#-ʿ -8JF ʿE8ʿ JH 8 -# F-ʿ 8ʿ E8ʿ # #8 0ʿ
-# F-ʿ #ʿ 8ʿ H2 ʿ1#2#F-ʿ & 2E#ʿ 1#2##ʿ / 82 #ʿ 8Xʿ &8-# +F ʿ 8ʿ JH E#F-ʿ
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+# #ʿ +# ##-ʿ 8ʿ H E8F-ʿ 1#2#F-ʿ F+JH E#ʿ +8Xʿ ʿ)2 # -ʿ T ʿ ;# 82+F #Eʿ
' JHE#ʿ 8Xʿ E ##8ʿ 8ʿ F #F-J0 8 JHʿ 1#2#F-ʿ &F J #ʿ 8Xʿ /8+ 8 0ʿ
-#-ʿ 8ʿ 1#2#F-ʿ 8 H E##ʿ 1#2##ʿ F+8E G#ʿ JF+I#ʿ 8Xʿ "# ++ G#-8ʿ UF J -+8ʿ 8ʿ & 20ʿ
EF-ʿ 1#2#F-ʿ &# + # ##ʿ 8Xʿ +J -J# #aʿ 8ʿ !J 2 ʿ 1#2#F-ʿ V H 2E#ʿ 8Xʿ
G JH aʿ 2 JF-ʿ 8 #aʿ 8ʿ & 2EF-ʿ 1#2#F-ʿ ## ##ʿ 1#2##ʿ + #J#ʿ , J #ʿ
#ʿ 8ʿ G #ʿ $+ 8-#E#-ʿ 2 #aʿ 8ʿ 2##ʿ F2 #ʿ #28-^ʿ 8ʿ # #ʿ 1F#ʿ -F<+8 #F-ʿ 8Xʿ
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ʿ<+ 82#ʿ 2F + 8 -8ʿ 1#2#F-ʿ G#ʿ 1#2## & JF #ʿ 8ʿ 1#2#F-ʿ F+8 E#ʿ 1#2##ʿ
+# #ʿ 8ʿ 1#2#F-ʿ +E82 N#ʿ 1#2##ʿ F+JH E#ʿ 1#2##ʿ +# #ʿ 8ʿ - F28+F ʿ J 0ʿ
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JH ʿ8ʿ -8<82#8+F ʿ8ʿ H +#1#J8ʿ 8ʿ #2# 8+ʿ 8ʿ E8J + -8ʿ # # mʿ F-ʿ
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+F ˢ 2#8 #G8 +F ˢ 8 ˢ &F 2# ## ˢ 8 ˢ &# #E##ˢ F- + 2#-ˢ # 8+ # 8ˢ E#8 ˢ &# #0

B Cˢ 55(2!ˢ 2 !ˢ 4 ˢ %ˢ (!ˢ (?ˢ 475?!ˢ (55!ˢ ' 4 1 674ˢ ' 4 5(; 3 ˢ 7 ˢ '5ˢ 5= !ˢ (?ˢ 55(2!ˢ 2 !ˢ @!ˢ !

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5=82 ˢ 84?Fˢ ; 7 (ˢ @ˢ <' 5ˢ Y8ˢ 3 '8 ˢ ho578ˢ <74 ' ˢ , ?78ˢ L ; 2' ˢ 7 ˢ '5ˢ =2y P 1 45'8ˢ ?X5'=58 (' ˢ '?674ˢ
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E 2F ˢ H 2EF-ˢ '" J +ˢ J8J#E# ˢ JJ#- -ˢ # ˢ <+w2# ˢ <8+ˢ E8+#EU##*
' J +ˢ JF ˢ F2 # FE# 8ˢ G mˢ XXX # ˢ 92
U+ #ˢ 4ˢ 92ˢ / -ˢ ' # ˢ $+w2#F+ ˢ y0J+ <8EG1{ mˢ
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B Cˢ :!ˢ Z, ˢ 4 ˢ 5= !ˢ ' : !ˢ @!ˢ ! ,ˢ 75?4ˢ 8467' 7 ˢ y8ˢ 5= (8ˢ #ˢ ?44884 ˢ 7 ˢ 87@ (!ˢ 7 1 4 " . = 1 (5"
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B Cˢ 55(2!ˢ 2 !ˢ ˢ 4 ˢ 4; 4ˢ 7 ˢ '5ˢ 5= (ˢ ' : !ˢ @!ˢ ˢ 4 ˢ (@7?ˢ 2(34 !ˢ @!ˢ Z!ˢ 55(248ˢ 7X22'(5'
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12FX8+F ˢ #ˢ XJ## ˢ ˢ # # # ˢ F E#ˢ ; 2 JJXJ# ˢ , Yˢ 9
L Fˢ 9 ˢ / ˢ 7 ˢ # ˢ S ˢ J8J ˢ F2 #ˢ ˢ ˢ / ˢ ˢ _
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92 ˢ 82# @ 92 ˢ 8 #
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B Cˢ 0A;ˢ :(:45 ˢ 55(2!ˢ 2 !ˢ (?ˢ (55!ˢ 8 ˢ 4=?41 ˢ 1=?=ˢ 67=ˢ 3ˢ 55(248ˢ 8ˢ 77 (4 45 7 ˢ (55ˢ G79 (ˢ
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B Cˢ ?ˢ 48 ˢ .49ˢ =55(;'Aˢ 5=5ˢ G7 4ˢ 84?ˢ '!ˢ 0A;ˢ 3(:4'' ˢ 55(2!ˢ 2 !ˢ (?ˢ (55!ˢ M ˢ 4 ˢ 4; 4 ˢ 75?4ˢ
I';ˢ ?4875 ˢ 5= Aˢ #ˢ 5714 =ˢ 48!
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5(2! 2 !ˢ (?ˢ (5571 ˢ MFˢ E ˢ =ˢ ?4875 ˢ 67(7= ˢ 5= Aˢ #!
B-Cˢ 55(2!ˢ 2 !ˢ !ˢ B Cˢ = A3A;ˢ # ˢ 497:4 (!ˢ , _Yˢ :!ˢ !

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!ʿ ; #J +# ʿ < + ʿ <8+ʿ J # - ʿ E8ʿ 2#8 82 ʿ F+8J2 G# ʿ # ʿ 8 ʿ ; #J +# ʿ
J <# +8 G + ʿ ; #J +# ʿ < + ʿ <8+ʿ J2#8 82 ʿ F+8E G# E8ʿ # J ##- ʿ # ʿ 8ʿ
; #J +# ʿ <FEʿ -- m
4) ʿ ʿ ; ɑ 9 2ʿ + a ʿ 4 #ʿ ʿ / , ʿ !ʿ ! EʿF- ʿ - #JH8 -#- ʿ
H # ʿ ʿ 28+ ʿ # 8+ #w U,2Y 9 ʿ 9
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' +# m,AY
ʿ _. ʿ 9 ʿ 8 ʿ % , #ʿ ʿ , ʿ ʿ , ʿ - ʿ ʿ ʿ - ʿ
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ʿ , ʿ ʿ # !ʿ ; #J +# ʿ < + ʿ E8ʿ +E82 J ʿ <FEʿ I EF ʿ
F ʿ <8+ʿ ' 8JH + ʿ 8 ʿ 8X<F2-F- ʿ 8- ʿ <8 # F- ʿ # E8 ʿ #X ʿ <+ J822 - ʿ 0ʿ
J ## 8X<F2-# 8ʿ J < ʿ E +0 ! # ʿ Eʿ +#8 28- ʿ < + 8- ʿ G8 #w m
f h ʿ ʿ 9 2 ʿ ʿ ʿ ʿ , # ʿ ʿ) ʿ ʿ 8 !ʿ ! + G8-+ʿ
F E0 8 #G8 -#- ʿ J + ʿ &# + ## #F # ' +# m
Z) ʿ ʿ U+ [ʿ 9 ʿ) ʿ !ʿ ʿ ʿ # - ʿ ! !ʿ &# +0ʿ
#F- ʿ 1#2#F- ʿ y ʿ 8Xʿ G8 #W 8 ʿ &F 2# ## ʿ + FF- ʿ 8 - m ʿ #Wr $+w2#F m
{ ! V / ʿ ʿ / ʿ +JH#8<- ʿ / ʿ SF#8 I # ʿ ' Gʿ
ʿ ʿ) ʿ +JH#8<- ʿ SF#8 I # ʿ # ʿ > < ʿ X ʿ 9 2 ʿ !ʿ X ʿ 9 28 0
E +F ʿ F +## m,BY) ʿ ʿ 8 ʿ ʿ ' ʿ - ʿ # ʿ 8Xʿ #W
8 ʿ G8 #wm ʿ + FF- ʿ 8- ʿ ʿ ʿ / , !ʿ # ʿ J28+#J F ʿ I # ʿ 1T2#J# 8+ʿ
/ ʿ 1# ʿ I # ʿ , . Y
A 1ʿ r ʿ ʿ ʿ 9 2 ʿ ' ʿ ʿ 8 ʿ ʿ ʿ ʿ _ ʿ # ʿ
ʿ ʿ ʿ # ʿ ʿ ʿ F+J8+ JH ʿ ' +#8 ʿ -F F- ʿ 8Xʿ # 8+ #w ʿ
8 ʿ <+wJ2 +F- ʿ -J#8 # ʿ # 8 ; 28J F 2# #- #- ʿ 8 < +# F- ʿ F2 # #- ʿ <+w # F-m ʿ # ʿ
ʿ 1# 8ʿ I # ʿ 1# # I # ʿ ,KY
ʿ 9 ʿ) ʿ ʿ X ʿ !ʿ $ - ʿ H2 #W 1 J F- m,_Y

B C ʿ 55(2!ʿ 2 !ʿ ʿ 4 ʿ 5= ! ʿ ʿ ' : ! @! gCr ʿ 4 1 ʿ 55(2! 5'8<(2! M ʿ (2'(8 !
B,C ʿ : ! ʿ ! ʿ B C ʿ : ! - ʿ @! Z ʿ 4 ʿ 5= ! ʿ ' : ! @! ZM! B C ʿ : ! Z!
B-C ʿ : ! ! s 7A ʿ '5 2 =5'458' : 78 49 (5 ʿ (? (55=8 Z 4 ʿ ʿ 3(: 45 7 ʿ 3'487 : 75= ʿ 2 2 2 < !
B C ʿ 2 ! (? (55! 8 ʿ 7 ʿ 4 '(1 ʿ '5 1 ('54 7422'(5 : 7 1 ! 55 ʿ ' 4 7 1 ʿ ; =5 45'75 !
}?Y ʿ ʿ E ʿ ʿ < ʿ CB ʿ 8 ʿ ; ʿ G#- +# E 8F E8 ʿ

! '

Q ' ' ' ' 9 ') ' ' ' ' ' ' ' 8X # 8 ###8m
+ FF-' 8- ' 4 ' ' ' ' ' 7 , ' JJ#-# -F ,'2Y 9 9
4 oC / ' ;.' 9 ' % # ' ' / # ' ' + FF-' 8- ! V ' '
/ ! ; #J +# ' ! 2 I ' --!] V ' ' ' % # ' ' # #
8X 2F+G8 -#-m # 8+18J F-' 8- ,AY 9
' ' ' ' 9 ' ' ' ' ' ' # ' 8X G8 # 8m +# F+'
) - G; ' ') , ' # 8#18J F-' 8- ' % , ' ' / , ' ' '
' ' ' # ,' / ,! ' ' ! +E82 JH ' ##J +' # I # '
&F 2# #F# ' 8 ' +82#SF# ' 1#2#F ' -FF ' # # m, Y 9 9
' ' ' / ' 9 ' / ' / , 'K 'S' + -' ' , # !
82-##-' ; #J +#F-' $ +#J## SF#8 I # ' # - -' -#JJ# #-' G - m ,BY
oC ' ? 9 ' ' ' ' ' ' 'H' ' / ' / , ' ' F'
J8J ' K ' ' ' ! ' / ' ' ' + ! 8--#-' I 2E8
G ' JFUF-SF8 G8 8+#-' 1+FJ FF H J , . Y $+ ^ #F ' ! 2 I 8 +8 ' F #
J8J#E# ' &# + # #F-' '2 82-8J2#2 ' -# F2 JF ' HF212#FJH 1#2# ' 1#2## ! 8 ### m
% # ' ' ' " "' !
W+' ' 1 ! ! ! # ' 9 ,KY' ' ' ' + # ' ' / ' ' ' ' !
; #J +# ' ! 8G- ' < + ' <8+' JH 8 -8-' E8 ! 8< 8 +# 2# # 8+ # m 9'
L22 " ' ' ! ! ! ' ##$ 9 ,_Y ; # ,' ' ' % ' ') G G 'K ' ' # G
' ' ' ' ,' ' ' # ,' ' &' / '2 ' ' / , '
'5 ' ' ' ' 7 ' ' $8- #28 # ' G ' H J ' +X K G
' 8 ' K ' ' # 'J F- -8 ' #8 -# F-' 8 ' G8 #8 -# F-' '
1#2# ' H 2E# ' J + ' 8 ' " #2E -' ! J +F ' '/ 2# ' JJ#-F- m
' ' ! ! ! ((Z 9 ',CY / ' ' / ! &8 I - # ' JJ28-#-8
J# m ' ' / # ' ' ' `J 2 8 !E +# F+'
' / ' ' K ' 8X &82 I # # ^m +# F+
A) Z ' ' ! ! ! 1# ' 9# ' ' ' 7 , ' ' ' &'K ' ' / G
, ' _ ' '% # ' / # ' ' ' ,' ' ' F' J8J ' / ,! ' / G
' '% # ' ; #J +# ' / # E + J 8 -#-' E8 8E ' 1#2# ' & 2E# ' O

B2C : ! ' , ! B , C : ! ' , <! B C : ! ' , ! B C : !22 , M !
B-C : ! ' @!! MZ! B C ' =?';'8' 1 ('54 ; 9 9 9 '' 4=?4 1' 1 (5@ ' 4 ' 4; 4!
BZC 5' 1 ('54 ; 9 9 9 ''' ' 4 ' 4; 4 ' B C 5' 1 ('54 ; !>99'

!ˢ %

J #Iˢ 8 ˢ ETˢ E8 ˢ '9822 ˢ 8 ˢ E8ˢ ˢ ##-ˢ [#ˢ J8J#E# ˢ J +ˢ '9822 ˢ
< 8+ˢ H E8# sˢ _ˢ 2##ˢ E #ˢ / , ˢ ˢ % , ˢ _ˢ + G ' ˢ
%p; = 48ˢ 1F8+F ˢ ?ˢ
ˢ ˢ #4ˢ 92ˢ @ ˢ ˢ) ˢ ˢ / , ˢ JJ#-F-ˢ 8- ˢ) .ˢ
ˢ ˢ) , ˢ 21# 8 -#-ˢ <#-J <F-ˢ ˢ / , ˢ / ˢ ;#J +#F-ˢ # 0ˢ
+ #mˢ ˢ / ˢ <FEˢ / ˢ8 ˢ SF#8 I # ˢ # ˢ ><
r ˢ ˢ TU\ˢ * ˢ 92ˢ) ˢ -ˢ & 2EF-ˢ H#2 +#-mˢ ˢ ' ! ˢ
JJ#-F-ˢ 8- ˢ ' ˢ # ˢ + ˢ 1#2# mˢ ' ˢ ˢ 8 ˢ # * F ˢ 8-
) ˢ ˢ nKKˢ ***Zˢ 92ˢ / ˢ ˢ / ˢ ˢ) ˢ 8Xˢ &8- # 8mˢ
JJ#-F-ˢ 8- ˢ ˢ <8+mˢ % , ˢ ˢ 8 $`(ˢ) ˢ !ˢ % #ˢ ˢ ' Gˢ
ˢ ˢ ˢ J##2#-ˢ + F- m, Y
^ 24ˢ ˢ KKKˢ ($ˢ 92ˢ &818J F-ˢ ! 2#-ˢ r"ˢ ˢ ˢ) , ˢ #ˢ 8ˢ -JF+ * ˢ
###G+ 8ˢ - 822 8 m
+ ˢ + / ˢ 92ˢ 8 ˢ ˢ ˢ !ˢ F-ˢ F E #T8ˢ H 28J 0ˢ
+F m
Zˢ 92ˢ ' ˢ # ˢ ˢ ˢ ˢ) ˢ ˢ ' !ˢ
' ˢ ˢ 7 ˢ ˢ ˢ % ˢ _ˢ ˢ ˢ 5 ˢ ˢ , ˢ ˢ _ˢ ˢ 5 ˢ
' ˢ fˢ f ˢ ˢ ˢ ˢ !ˢ #28-ˢ G8 #88ˢ # -F+GF ˢ
E I 8+- -ˢ &# +1F# #F ˢ 1#2### ˢ F+JH E#ˢ / #2#F-ˢ 1#2##ˢ / 82 #ˢ 8 ˢ ' 2##ˢ 8 ˢ
1#2?#F-ˢ 1#2##ˢ " ++F #ˢ JJ#-*ˢ ˢ 8 ˢ 8 ˢ 1#2#F-ˢ "#2E -ˢ JFE#ˢ JF2#-ˢ + F-ˢ <+ # 80ˢ
8 ˢ ˢ 8 m, Yˢ - ˢ - +FJ # ˢ 822#1 #-
ˢ ˢ ˢ ˢ 92ˢ / , ˢ ˢ 8 ˢ ˢ ' ˢ -F<+8 -ˢ 8Xˢ
*mˢ 1 +F-ˢ 8- ˢ F ˢ & # #J -ˢ J # #-ˢ - ˢ 4%6
r ˢ ˢ (ˢ 9ˢ ' ˢ ˢ ' ˢ ˢ # , ˢ ˢ % , ˢ ˢ
/ , ˢ _ˢ # ˢ ' ˢ ˢ , ˢ ˢ / ,!ˢ ˢ !ˢ 5 ˢ # ˢ ˢ
/ ˢ * ˢ ˢ # ˢ 8ˢ +JH Eˢ 'm *82-8JH2 ˢ E8<F2-F-ˢ 8ˢ +8G ˢ ˢ
+E82 JH ˢ ? J +ˢ 8 ˢ +8G F ˢ #E# -ˢ E F ˢ J + ˢ 1#2# ˢ 8UF-ˢ
"#2E -0 GF- ˢ ' 2 [ˢ -F<+8 F-ˢ $ 8 ˢ # 8+ #*8ˢ d+ FF-ˢ 8- mˢ, .Y

B Cˢ %'?4ˢ 67A*?4ˢ 4G 8ˢ =:' 7ˢ ?'; (ˢ 875 ˢ '5ˢ =24 =1 45'8 ˢ 7:ˢ ?4ˢ A (4ˢ =?';'8ˢ 0':4 5';ˢ %ˢ (5&ˢ
42'= 71ˢ '5ˢ ':2'= 3!ˢ 0 (24'(5(ˢ =!ˢ ,!
B,Cˢ 448 ˢ 3';ˢ 5= (ˢ / ˢ 7 ˢ @(4 ˢ 49ˢ ;<'@8ˢ =2p~ˢ (55ˢ 846745 '8 ˢ 67Aˢ '5;'?' ˢ '2ˢ ?'4 (ˢ , ˢ ('ˢ (55ˢ
!ˢ ! # ˢ ˢ ` #ˢ ˢ ˢ ! ˢ @!ˢ Z !ˢ +
B Cˢ %ˢ ('8 ˢ 3A;ˢ 3(:45 ˢ (?ˢ (5''!ˢ !ˢ B Cˢ %ˢ (!ˢ (?ˢ (55!ˢ ,!
B-Cˢ =2 (578ˢ 3A;ˢ 4<4 ˢ (?ˢ (55!ˢ ˢ p(?4ˢ @!ˢ -!ˢ %ˢ ('8 pˢ (?ˢ (55!ˢ !

) B !

92 / , % , f / , ' `J
#E# 8m JJ#-F- 8- 92 , Y
+ ! ; # # # # F E# e ; 3 92 % # G
#G8+ ' F +J # I # F-SF8 2 JF+ G #8 2 JF
I #F mF # JJ#E# SF SF # -F2 1F8+F _ I8- J # [--# '
/ - G ! ; #J +# 28 H# +F H2 # 8 m ,AY
i 92 / , % # -%,
/ , ! ; #J +# < + E8 #G8+ ' F +J <8+ 8X8+J# F
+E82 JH# ' ?J + m
+ ***[Z 92 ' ' # 8G F- #F- # 8+ # 8 I#+
- J #--# F- #F2 #- #+ JF2#- # 2 + I 228 # >< SF#8 I# @ # E8
8 f H J 1 E 8- & # #J8 # 8 + # #- - 3 4$6
92
4 9 ') , # +JH#8<- / # >< SF#80
I# !V)) / , JJ#-F- 8- # ;A ? G
! <FE <+ 82#F ! 2I 8 G # s
92 / % , ! / ' G ! X0
8+J# F- <+ 8E +#F- JF +E82 JH $+ 82#F # #+8 m +E# 2#-
! H 8- $ <#+ I8 # E < + 8- # 8+ # 8 -8JF+ 18+8 - ; + $ 22# ,BY
L x 92) , # , % # ,) G
22 ' ! / # % ,! #1 / A# ,
/ ! &8+I +G 22 FX + #G8+ # ' F +J + < <8+&# + # #F 1#2#F
F+JH E# -8JF H 2 ,J G # F-Y < +I# 8SF# 1#2#F- +E82 JH#
8+1JJ F- 2+ G##- # +
+ . FH 92 ' A ' ' 8X #E#Zm +#0
F+ 7 , / / 8X #+J 22# 8m + FF-
8- JF+ FX +8 -F # +# -J#2#J8 # 1#2# m % , / , !
E8 SF SF8 ! 8+ +EF- # 8 - 2 +8I 228 -#- SF#8I# !V) "

B C 0'4; 3(:45 % ('8 (? (55! !) 4245?(48 3= ; 5= (# ! =5<4 (55=8 (: 457
- 3 67= (55= ! (2(;3'(8 = :'' 4 =5(8 4 '71 7422'71 <75?(71 48 !
B ,C % ('8 (? (55! 2 !
B C : :(2'((? 1 <27 '71 @ '1 = ;=5?' (48 (55= ! %'?4 '5<'((? (55! 2 2!
B C (?'''(2'8 (@' =5'8 (? 45 78 4; 4 4<4 7 (% ('8 '8 (? (55! - !

ˢ ' ˢ ˢ , ˢ -ˢ 8 ˢ 8X 2 #w 8 ˢ +# #wm SF#8 I # ˢ , Y
% ˢ ˢ 8 ˢ ˢ , ˢ ˢ % ! ˢ / , ! _ ˢ ˢ ˢ ˢ ˢ G
! ' D ˢ 7 ! % # ˢ 8 ˢ ˢ ! % , ! ˢ 8 ˢ
ˢ ' ˢ +E82 JH ? +# ˢ 8X<F2- -ˢ ˢ +E82 JH ˢ ' ##J +ˢ 8 ˢ
I # ˢ # ˢ ! 8< 8 +# 8 , AY ; #J +# ˢ / +E+F 8 -#-ˢ H E8F-ˢ ' +# ## ˢ
+ F-ˢ +E82 JH ' +# ˢ # ˢ # ˢ # 8+F ˢ # & # #J8 0
J + # #-ˢ - "
) ˢ J ˢ | ˢ 92ˢ) ˢ ˢ / , ˢ / # ˢ +# F+ˢ ' ˢ
8 ! ; #J +# ˢ + JH m % # ˢ 8 ˢ +# F+
#<ˢ ˢ (ˢ 92ˢ ! ' ˢ ˢ ' ˢ ˢ ' ˢ ˢ
' ˢ 8X #E#?wm +# F+ˢ ˢ ˢ ˢ # ˢ 2ˢ # ˢ ˢ 8ˢ / 4 ˢ , ˢ
7 # ! 8E ' + ˢ 8X FG #w + FF-ˢ 8- ˢ 12#J F-ˢ 822 +F ˢ
/ # G 22#w m
ˢ ˢ 3_ˢ 9 ˢ ' ˢ / G ! % , ˢ ˢ / , ˢ ˢ
/ ˢ -ˢ ' ˢ w f ˢ w ˢ ' # G ˢ w ˢ ˢ ! !
; #J +# ˢ F 20JJ< 8 -#-ˢ +E82 JH ' J + 8X J#w ˢ 8 ˢ #0
E#w ˢ 8 ˢ &F 2# ## ˢ 8 ˢ &## g # F- + 2#-ˢ # 8+ #w ˢ E#J # &# #E#F ˢ ' # G2
ˢ 8 ˢ T+ -ˢ # 8+ #w ˢ) + FF-ˢ 8- m ˢ & # #J8 J + # #-ˢ
- 3 ˢ ˢ # # # ˢ F E# e ; 3 V 8 ˢ 8 ˢ ˢ ˢ JF2#-ˢ
+ F- m % # / ˢ ˢ % , ˢ 8X 811#wm SF#8 I #
1 #<ˢ J (# ˢ 92ˢ / G4 ˢ ˢ / , ˢ JJ#-F-8- ˢ 7 # ˢ ˢ ˢ
JJ#-F-ˢ 8- ˢ / ˢ % ˢ) H G ! & ˢ + # ˢ ˢ ˢ
ˢ ˢ / , ! -8J+ # ˢ JJ28-#w ; E#0< #-ˢ -F2 ˢ U!?8 G
I - ˢ ˢ E8+#J ˢ ' J + m / G ˢ ˢ 8 , ˢ ˢ 4 ˢ 8X
2#E#wm +# F+ˢ - 3 ˢ ˢ # # # ˢ F E# e ; 3 4$6
^L##ˢ) ˢ J ˢ [ˢ 9 ˢ) ˢ ˢ # ˢ +JH#8<-ˢ ' ˢ SF#8 I # ˢ
' ˢ G ' # ˢ ˢ) ˢ ˢ ' ˢ ˢ ˢ w ˢ % # G
! / , ˢ ˢ) ˢ ˢ 8 ˢ ˢ ! ' ˢ ˢ 5 !

B C : '' ˢ (55=ˢ - ˢ G79 (ˢ =1548 ˢ 49;4@ =ˢ 482(4=ˢ 7;3(5(5H . 4 ! ;= ! !Z ˢ @J , !
B , C s7'?(1ˢ 2'5 7(4 0':4 5';(4 @45' 78 ' 5(78ˢ 67" 49;4 @ (ˢ 4!9 3'8 55(2':78 ?=; '88'1=ˢ E (524=ˢ
493':7' ˢ 3(4;ˢ ' (ˢ 5 2';4 4??'?' ˢ K ˢ ˢ % ˢ ˢ # ' G @ =ˢ ' ' ˢ '5 4@ 45 '=541H %'?4 (S
(2= ! 0 (24'(5! =! , !
B C aJ H 8 ˢ % ('8 " E ˢ . _ ˢ F E8 < 8 ˢ F 8+ -ˢ -ˢ H#8 ˢ F ˢ +8EF E +8ˢ
I 82 E F ˢ -8SF8 8 ˢ E8 8+8 +818++#

/ , / ! ' ' # 8)
1 - % ' , ! 0 ; #J +# ; J2# ' # J + &
JH EF ' 82-8JH2 < + <8+ &# + # #F # 8 <8+ #G8+ F
J2 F+ 1#2#F- & 2E# ' +# JF2#- + F- ; #J +# "F++#8 -#-
! + G8- JJ28-# - #J +F J#w ; #J +# <# J # # SF E8J#-#
-F & JH E 1#2#F- E8+#J# 1#2## 8E# 8 2 JH ' 82 +8 m
U 22) 2) 2 9 2) % u # ' ' # 8X
2F+G8 -#-m + FF-8- ' 7 ; #J +# ; E# /#+E#w m
J8J#E# 5 $ /) ' # # 8X 2F+G8 -#- m
_ ' % # ' _) / _
2## F2 # #28- _ #G #28-
B # Z 9 2 !)
! 8 & JH E 1#2#F- & 2E# H## +#- ' 82-8JH2 8X #E#w JJ#-F-
8- m@ 8 2 % 8X &F 2# ##m JJ#-F- 8- ,2Y
) J Y 4 9 2 +JH#8<#-J <F- / SF#8 I# O
8 H J 1F E 8- UFX 8 ! - # #
I 8+ F E# ; JJJ X $+# # J8<# 8--8 <FE 5 F G N -8JF E
<FE) G N 8+ # <FE 8 N SF + <FE 8 ! 2
<+# 2 J <+# F- - $8 +F- ' 1F# # 8 ' + m -8JF E
' <8+ EF - - $ - 8F F+#J#F- # 8 E8 2 J <8+ I#
#y - _ <FE 8 EF - _ E# ##E#F x`` 8 I 8+ #~ I# X###
_ E# #E# @ / % / , ! - 822F
F 8 -8 wE#1#J F E8+#J ? J + U,AY 4
) Ut 9 2 & /) , JJ#-F- 1F#
ULy) 2m1 2 9 2 ' - G # , W
; , ' _ , ! # 22 1#2#F- F+J8+ G# 1#2## 1#2## JH2# #
J < F- 2 ##- 8 -8SF J8- 8UF- JJ#-# m
U!+Z +B 4 9 2 , 5 / # / #! (
' 2 1#4 9 2 % i 8 #I# # -F
<8+8G+# # 8 m _ 1#2#F- 8UF- +TG ' !) 5 K W

B`C c% ('8 " (? (55! 3(:45 # # #
B, C 0A; 24 75 7 '5 =?' ; '8 <=2'= , ;=27 1 5(, 2'54(, ! =5 45'75 (55" ;7 1 A (;=1 1754!
B C %'?4 % ('8 =8 (? (55 ! r *

((#* !ˢ ( )_

1#ˢ **+1#?`W?` 8Xˢ -- +#*8㎡ JJ#-F-ˢ 8- ˢ ' # ˢ ˢ / ˢ ˢ ˢ
/ ˢ 8Xˢ #+J 2##-8 ˢ +# F+ˢ 5 G ˢ ˢ ' , 2 ˢ_ˢ ' ˢ
ˢ / ˢ / # ˢ +#F F+
*2221ˢ oCˢ ˢ & ˢ , hˢ 9 2 ˢ % ˢ ˢ 8 ˢ +8G I# ˢ 8+F ˢ + # ˢ ˢ
ˢ ˢ / , !ˢ ˢ ˢ ˢ #!ˢ ˢ 5 ˢ 4 ˢ !ˢ ˢ
ˢ) ˢ ˢ ˢ # ˢ ˢ ˢ) 1 ˢ ˢ / , ˢ wˢ * # , !ˢ ˢ
ˢ 4 # , ˢ ˢ ˢ , # ˢ - ˢ ˢ ˢ ' ˢ ˢ ˢ / ˢ ˢ
ˢ ˢ ˢ) - , ˢ ˢ 4 ˢ ˢ ˢ ˢ ' ˢ ˢ f ˢ Gˢ
!ˢ ' ˢ ˢ ˢ ˢ ˢ ˢ ˢ ˢ !ˢ 8ˢ 8 # ˢ
ˢ / ˢ ˢ !ˢ ˢ ˢ / , ˢ _ ˢ) ˢ ˢ ' !ˢ -ˢ
% # ˢ ˢ -ˢ # ˢ wˢ 5 ˢ 4 ˢ , ˢ) ˢ ˢ ' rˢ
ˢ ˢ !ˢ + # ˢ ˢ ˢ _ ˢ ˢ) ˢ wˢ ˢ % # ˢ 4 # , ˢ
ˢ * # , ˢ ˢ ' ˢ ˢ # ˢ ˢ !ˢ X8+J# F-ˢ JF ˢ E8+#J ˢ
' J +ˢ F-SF8ˢ &F 2# #F ˢ E =88ˢ +8G 28 ˢ 8E#8F # ˢ <+ 8- # 8+F ˢ
2#8 #G8 8ˢ &F 2# # ˢ 8#ˢ E8ˢ &+ JH E ˢ E =88ˢ +8G 2#-ˢ 8E#8 # ˢ <+-8- #0ˢ
ˢ 8- ˢ 8#ˢ ˢ & E8H E ˢ ' ++ 22 ˢ 8 ˢ ˢ +G# 22?##-ˢ $ - 8 ˢ G8 # #ˢ E 8 ˢ
- F2# ˢ J < #I -ˢ -8JF ˢ ˢ 1#2# ˢ F+JH E#ˢ <+ < 8+ˢ ˢ 8 -82 8H# -ˢ - 2F+ ˢ
JH E#F-ˢ 1#2#F-ˢ 1#2##ˢ & -28 I ##ˢ 8Xˢ &2#E# 8ˢ JF2#-ˢ + F-ˢ ˢ F+JH8+ JH ˢ
1#2# ˢ 1#2##ˢ J 2# # ˢ F+JH8+ JHF-ˢ 1#2#F-ˢ # 22#ˢ 1#2##ˢ 1#2##ˢ J 2# #ˢ 8Xˢ # 8+0ˢ
ˢ JJ#-F-ˢ 8- ˢ -#E8-ˢ #+J 22# -ˢ E -ˢ E8+#J ˢ E8+#JF- ? J 0ˢ
+ˢ 8 ˢ &# + # # -ˢ ' 82-8JH 22 ˢ 8 ˢ #G8+ ˢ ' F +J ˢ 8 ˢ G8 ## ˢ 8 ˢ 2#0ˢ
8 #G8 -ˢ &F 2# # ˢ 8X<822F ˢ &# + 1# #F? ˢ 1#2#F ˢ F+JH E#ˢ + -ˢ +8ˢ X
8+J# F-ˢ JF ˢ E8+#J ˢ 8 ˢ JF ˢ &# + # # ˢ 8 ˢ JF ˢ #G8+ ˢ ? F +Jˢ 0ˢ
G8 # ˢ -- +# ˢ # ˢ E 88ˢ 8G8 ˢ J - # F8+F ˢ 8-ˢ E80ˢ
+#JF ㎙, 2Y
+ ˢ ˢ & ˢ , ˢ 9 2 ˢ 8 # ˢ ˢ # ˢ ˢ) !
< #I#ˢ #+ #Zˢ JF ˢ E8+#J ˢ &# + # ㎡ % , ˢ ˢ 8
ˢ ˢ ˢ ' # ˢ ˢ 8Xˢ E# #E##ˢ G-80 F E ˢ #ˢ 8ˢ E# #E##ˢ F- + 2#-ˢ
8+ #+8㎡ +# F+ˢ) & # #J8ˢ J + # #-ˢ JXX I ##ˢ ˢ # # # ˢ
I8+ ˢ F E#ˢ ; JJJXX I #

b Cˢ 0(4;ˢ @4 & '?';724ˢ ('54ˢ 4??' (ˢ 49 (5 ˢ '5ˢ 9;4 @ '8ˢ @ (4?'; '8ˢ(E (524=ˢ 4?'''8ˢ '5ˢ ((2= =ˢ 0 (Jˢ
24'(5=ˢ =!ˢ ,!ˢ %=;4 (ˢ 0 ':4 5';(5ˢ ˢ 67(8ˢ 5'3'2ˢ (2'7?ˢ 8' 5'<';("67(1ˢ ˢ (; ; '@' ˢ 5 4'&@ 48ˢ
@ =ˢ 5=1 '54ˢ 2=;"ˢ ;7G78?((ˢ 67'5722'<(" 7567(1ˢ 49 ' ' ˢ '5ˢ = :4ˢ 4 (7 1 &J*Kˢ ˢ ! ˢ$ ˢ V45 2IJ

! ' /

Ž " ' ' ' # 4 92' ' ' '% , { ' ' 8 ' ' ' ' 8X'
#wm' JJ#-F-' 8- ') ' ' / , ' ' * # ' n 8X' +G# 22#wm'
+# F+' 7 ' ') , W ' <#-J <F-' +4' ' ' #< +# F+ ,2Y'
' ' ' / ' ' ' ' ' ' ') ' ' ' !'
; #J +# ' ; E#' +##' J + ' + F+F# ' ' 82-8JH 2' < + ' <8+' &# + # #F '
' 82-8JH 2 m' & ' 5 ' ' ' / , ' / ' JJ#-F-' 8- '
U) 24' (')' ' ' 92' 7 ' ' 7 ' +# F+' # ' , ' '
W ' ' ' ' ' !' I8-' 8+ #' I8###F ' # ' EUF +#F '
1#2##' F+JH E# m' 2') -(' ' ' ' JJ#-F-' 8- ' ' 7 ' , G'
!' ' & #E ' #8 E J8 m
22') ' ' u .' J !' / ' # ' ' ' '% ' + W# ' ' '
' ' ' E - !' G ' J2 --#-' JF ' #J +E ' #' 8' # T' ! +#GF0'
28 -8' # ' EUF +#F ' 1#2##' F+JH E#' -F#' ! J8+# U,AY' ! J F-' H -' +JH#8<#-0'
J <F-' F +#8 -#-' # ' -*2#J ' -8E#-' -F8' G2 E##-' <# +F ' JJF F# 0)] ?`WW0'
' ' '_' ' ' ' !' _' 7 ' , # ' _' ' % # ' '
' _' ' ' ' ' / , ' ' !' & ' ' ' W ' ' 2 '
' ' ' ') ' ' !' % ' ' ' # '
' ' , ' _' ' ' ' ' ' ' , ' ' _' ' ' ' 2 '
' 5 , ' ' , ' ' F2 -' 8X' 8#-' JJ#E# ' 8 2 # ' ' ' '
' , ' ' ' % # !' X8+J# F-' JF ' E8+#J ' 8 ' + F+ ' ' 0'
82-8JH2 ' 8 ' & #E ' 8 E J8' 8 ' JF ' #G8+ <' ' F +J' 8 ' JF ' F+0'
JH E ' ' ++ 22' &F 2# #F ' 8 < +8' SF ' 1F8+8' <+ <8' I#E8+F ' +J8 '
J8 E# ' 12 G+ 8 ' $+ # F- E8 +#JF-' # I # ' JF ' -F#-' #2# F-' E' <<FG0'
E<-' H - 8-' 8 ' # I # ' 1#2#F-' F+JH E#' 1#E8' E ' # ' +J8 ' 8 ' ' -8+I I# '
-F ' 1#E8 ' JF ' 2#8 #G8 #-' <<#E#' ' F2 -' 8æ)' 8#-' JJ#E# ' -#E8-'
1#2##' F+JH E#' JJ#-#' ' 8X8+J# F' #G8+ # m
U! Ž) ' 1' 2 U ' 1#' 92' 7 E2 ' ' ' 2 ' ' # ' _' 5 4' , Y' ' '
' !' &# + # #F-' 1#2#F-' F+JH E#' 8X' G8 #w ' 8 ' 2#8 #G8 +F

B C' 5' =?' ; 4' ; 3((; 4=' 2(45?=5' (5=' 784' ' (55' ; ' ' '5' 67=' 67' 4?((' 49 ; 4 @ (' 49' 55(2' : 78!'
2 =5' (4' 84 (5 7 ' @' 8 ; =@78' ' 8 4' (@@422(7 ' K' @' 8 ; =@78' ' ' ' ! 4!' 2@3' 5!Q' =5<4 ' ' 884' * &'
(' =541' 5=8 (1' ?4' T (4' =?' ; ' 8' 2' ' : 4 5' ; ' ' <(24' (5' %' (5 42' = 7 1' 8(4;72' , 1' !
B,C' %' ?4' 67(N' ?4' (? ' 5 7' 5 R= 7 1' ?' 4 (' 875 ' ' 5' 55(2!' 5' 8<(2!' (?' (1 ' !' Z ' @(!' - ' 4 ' @ ='
1= 4' 3= 1 T' (I 4; m4 ' 3= ; ' (55= ' ; =5<4 ' K' = ?' ' 24 =5I8' 0 45 L' 34' , ?!Q
B C' =5 45' 75 ' ' 5' (55=' 5' 8<(245848' 4 ' %' (' 8 ' ' 4 ' 4 ; 4!' %' ?4' 5' 8<(2!' @!' ' 5= !' !

+# F+ˢ ; #J +# ˢ F +#EH8 -#- ㎡ ˢ ˢ % # ˢ JJ#-F-ˢ 8- ˢ ' #k
ˢ ˢ) " ˢ ˢ 4 ˢ 8Xˢ 2#E# 8㎡ +# F+ˢ 8 +#JF-ˢ 8Xˢ G?2#8ˢ
I8 #ˢ Eˢ # 8+ # ˢ $8 +F-ˢ ˢ ' ˢ <#-J <F-ˢ 2F 18+ ˢ + FF-ˢ 8- ˢ
L'ˢ ˢ J M Nˢ 9Oˢ 92ˢ 8 +#JF-ˢ +8I8+ # F+ˢ 8Xˢ G2#J ˢ % # ˢ " ˢ
ˢ 8 ˢ 8Xˢ +81 # ^㎡ JJ#-F-ˢ 8- ˢ ˢ G2#J#- ˢ _ ˢ J+FJ#1#XF-ˢ <FEˢ &F 2#Oˢ
#F ˢ ' ˢ ˢ ' ˢ _ ˢ ' ˢ ˢ 8 ˢ # -# F2ˢ JJ#-#ˢ -F ˢ
) ˢ ˢ 7 # ˢ ˢ ˢ # ˢ & 2EF-ˢ '/8++ 22ˢ &FXˢ
2#8 82#8ˢ 2# +F ㎡ JJ#-F-ˢ 8- ˢ 5 ˢ ˢ ˢ ' # ˢ <#-J <F-ˢ / Gˢ
#ˢ SF#8I#ˢ # ˢ ><

ˢ ˢ & ˢ 5o ˢ 92ˢ) ˢ # ˢ & 2EF-ˢ 8 Eˢ X㎡ JJ#-F-ˢ 8- ˢ
' ˢ ˢ `W W +#ˢ <#-J <F-ˢ / ˢ 8 ˢ SF#8I# ˢ & ˢ ˢ
ˢ / # ˢ ˢ ˢ ' ˢ &FXˢ J 8 82U8ˢ 82# ㎡ +# F+ˢ
) ˢ !ˢ ˢ ˢ ˢ % ˢ JJ#-F-ˢ 8-

U ˢ K ˢ / ˢ < ˢ 92ˢ ' ˢ ˢ / ˢ <#-J <F-ˢ + ˢ ' ˢ
SF#8I#ˢ 5 ˢ ˢ ˢ / , ˢ K ˢ ; #J +#F-ˢ $ +#J##㎡ SF#8I#ˢ , Yˢ
5 ˢ ' , ˢ -ˢ ' ˢ 7 ˢ _ ˢ K ˢ ˢ ˢ 12 +F#ˢ
4 ˢ 5 ˢ # ˢ ˢ ˢ '" + ˢ -F<+8 F-ˢ $+#828J +ˢ # 8+ # U㎡
+# +ˢ 822F ˢ) ˢ J #--F ˢ 8- ˢ JF ˢ G2#J#- ˢ _ ˢ &F 2# #8 -# F- ˢ ˢ
) ˢ 8G8ˢ ' ˢ 2 ˢ / , ˢ ' # ˢ JF ˢ -F#- ˢ # ˢ SF ˢ
G2#J#ˢ E818J8+F ˢ Eˢ + 8 ˢ _ ˢ &F 2# #8 -8-ˢ <8+#8+F ˢ ' # ˢ ˢ) , Gˢ
ˢ <+# F-ˢ -ˢ 8 4 ˢ _ ˢ 8+ #F-ˢ -8JF EF ˢ #SF# 8 ˢ E F- ˢ SF#8I# ˢ
+ ˢ 8 !ˢ J#2#F ˢ #++8 -8 m

L ˢ #<ˢ ˢ & ˢ 92ˢ ' ˢ ˢ ˢ / #ˢ <#-J <F-ˢ 4 ˢ SF#8I#ˢ
) ˢ / , ˢ ˢ) ˢ ˢ ' ˢ ˢ # ˢ 8Xˢ G8 #J8㎡
JJ#-F-ˢ 8- ˢ ˢ ˢ 5 A ˢ ˢ ˢ ˢ A !ˢ 2#8 #G8 -8ˢ 8F ˢ J + ˢ #Oˢ
8+#JF# ㎡ / ,ˢ ˢ ˢ / ˢ + # ˢ / , ˢ K ˢ ; #J +#F-ˢ
$ +#J##㎡ SF#8I#)

ˢ) ˢ ˢ U#U1 , _ ˢ 92ˢ K ˢ + # ˢ 2"ˢ ˢ ˢ ˢ 5 ˢ ˢ Gˢ
!ˢ) ˢ ˢ / ˢ ˢ # , ˢ ˢ / ˢ ˢ 2 ˢ !ˢ #JH +EF-ˢ
! +#GF28 -#- ˢ #ˢ 8ˢ 8- ˢ +# F+ ,AYˢ 2#8 *G8 -ˢ E8+82# SFF ˢ # 8+#JF ˢ
&# + # #F-ˢ 122#F-ˢ + J#ˢ J < F-ˢ ˢ + # J ˢ J ㎡ A ˢ ˢ ˢ ˢ

B Cˢ %'?4ˢ 87@ (ˢ (55!ˢ ^Q k ˢ 5= !ˢ ˢ &ˢ Z ˢ 4 ˢ 5'8<(2!ˢ \ ˢ 5= !ˢ ˢ @(!ˢ 2' C!
B,Cˢ =ˢ 1= 4ˢ =1 ' '8ˢ ?4ˢ 41 : =m4ˢ 3=;ˢ (55= ˢ '?4ˢ Kˢ !ˢ ' 24 =5I8ˢ O'8 = L Qˢ 4 ˢ (7; = 48ˢ (:ˢ '2'(ˢ
;' (=8!

R JJ#-F-ˢ 8- ˢ ˢ ˢ JJ#-F-ˢ 8- ˢ ˢ -F#- ˢ) ˢ ' ˢ ˢ
% , ˢ ˢ / ,!ˢ ˢ / ˢ - #JF-ˢ &FXˢ J#w ˢ #ˢ 8ˢ
AEF-ˢ < - ˢ 8G8 mˢ +# F+ ˢ & ˢ ˢ & ˢ <#-J <F-ˢ ˢ 7 ˢ
,H E#8ˢ J (ˢ SF#8 I# ˢ

ˢ #U+ ˢ 9 2 ˢ ˢ ˢ 5 ˢ 8 W ˢ ˢ ˢ ˢ 8- ˢ #Gˢ
ˢ ˢ 5 4G / ˢ ˢ ˢ / , ˢ ˢ) ˢ ; #J +#F-ˢ ˢ) i]ˢ
+# F+ ˢ ; # I # -ˢ +E# 2#-ˢ I 8 # ˢ Eˢ E# 8+ # + , Yˢ ; ˢ ˢ / ˢ ˢ
ˢ ˢ 4 , ˢ H 8-ˢ E8ˢ F+J#ˢ I 8 # ˢ 2 # mˢ _ˢ # 8+18J# ˢ F2 - ˢ
_ˢ JJ8<# ˢ J# I # 8 ˢ) # ˢ # ˢ 8 ˢ &F F m@ / , ˢ ' # ˢ
ˢ # , ˢ ˢ ˢ JF +ˢ 8 # #G#ˢ J < F-ˢ ˢ $ +8ˢ -F mˢ ' u u ˢ
5 # ˢ #28+#F-ˢ E8ˢ G mˢ JF ˢ G ˢ 8X8+8# Fˢ I 8 # ˢ # ˢ J # + ˢ _ˢ <8+0ˢ
I 8 # ˢ F-SF8ˢ Eˢ % !ˢ &8# E8ˢ +8 I 8+-#ˢ -F ˢ ' ˢ # ˢ 8 E8 ˢ 8 E E ˢ
' ˢ ˢ ˢ ˢ ˢ JF2#-ˢ + F- mˢ ˢ ˢ ˢ JJ#-F-ˢ 8-

ˢ U+Uˢ [1ˢ 9 ˢ % # ˢ ˢ 5 !ˢ 4 # ˢ ˢ ˢ ˢ # ˢ
5 G G !ˢ / , ˢ ' # ˢ ˢ , ˢ ˢ ˢ ˢ ˢ / !ˢ
ˢ ˢ 7 , - ! ˢ ˢ / ˢ !ˢ # , ˢ ˢ ˢ + Gˢ
!ˢ + -# # ˢ " 22# # +F ˢ ,AYˢ FG ˢ E8ˢ J#ˢ I 8 # ˢ 2F J -# # ˢ
JF +ˢ 8 ˢ J < F-ˢ ˢ G8 8ˢ -F ˢ <FEˢ 2 JF ˢ F ˢ 8Eˢ ' / 2 H8+ ˢ
8Xˢ [JJ#E8 2#-ˢ J#wˢ +# F+ ˢ EF ˢ # 8+8 ˢ I #J +# ˢ T++8- +8+ ˢ
-F<+ ˢ ! 8 F mˢ , ˢ ˢ) ˢ +# F+ ˢ 5 ˢ / ˢ ˢ ˢ Gˢ
ˢ <#-J <F-ˢ / ˢ SF#8 I # , Yˢ % ˢ ˢ / ˢ <#-J <F-ˢ ˢ
8 ˢ SF#8 I #

/ Knˢ U14ˢ 9 2 ˢ & ˢ ˢ / ˢ ˢ + ˢ 8Xˢ ! # +F mˢ
+# F+ ˢ " 8 8+ 2#-ˢ ! 2 EF-ˢ $+8-#E8 8ˢ 28X E+ ˢ JF ˢ & J J X X X I ##ˢ <#-J 0ˢ
<#- ,BYˢ + ˢ ˢ !ˢ #Xˢ <+ J822 - m
=# ˢ) ˢ ˢ (><$ˢ 9 2 ˢ 5 G / ˢ ˢ ˢ / # ˢ ˢ ˢ ' Gˢ
ˢ &FXˢ J2#8 82wˢ 2# mˢ JJ#-F-ˢ 8- ˢ / ˢ ˢ / , ˢ $+w2#F ˢ
JF + +F ˢ # ˢ 8 mˢ / , ˢ ' # ˢ -ˢ / , , ˢ * 2 / ˢ #

B Cˢ . 4?' ' ˢ 54 1 @4ˢ 0' : 4 5'(5Tˢ ˢ ; = '(!ˢ 3 =5!ˢ 42 =8!ˢ (?ˢ (55!ˢ Z ˢ 47: ' !ˢ . 4 !ˢ 5 2' ; (5ˢ ! ˢ
!M ˢ 0= 4?45 ˢ . 4 (5 ˢ t ; !ˢ B , Cˢ %'?4ˢ ' 4 5(; 3"ˢ =5 '5!ˢ (?ˢ 475 '41ˢ (55!
B Cˢ 5ˢ =?' ; 4ˢ 2(45?!ˢ ZM ˢ Kˢ @'8 ; =@78ˢ < # Bˢ =5 45'75 ˢ (1 : = ˢ 6 # ˢ 45' 1ˢ ˢ ! # - ˢ
3=?'4 ˢ (5 '67' 78ˢ ˢ =5<4 ˢ ' 4 5(; : "ˢ =5 !ˢ (?ˢ (55!ˢ 375 ; \
B Cˢ 0 (: ' (ˢ 48 ˢ L5=?78ˢ (4 (5458'8ˢ s ; 7 1 45' ; (ˢ ; 7"ˢ '5 4 <7' ˢ (7 45 '78ˢ I ==2 ˢ (55=ˢ 3= ; ˢ ZMWˢ
=ˢ 57 1 4 '8ˢ &8Jˢ 24 4ˢ JJJ ˢ 7 ˢ '5ˢ 0 7 ˢ 31# ˢ 2' : =ˢ , ˢ 4ˢ 422=ˢ (4 @!ˢ 8ˢ 45' 1ˢ L7=?=ˢ '5 4 <7' ' !

! + I

SF J8J#J2# / ! / @ G JF 1#2# -F w # _ G8+ % _ 1#2#
1# +#- 8 F2 # #F2# 8 ###F 8 G #2#F -F<8+ ### 8+## % #
% # / _ 8X 2 8+ < + 8 ' ! ' 7 G
, Z) / , ' # ! ' # w2
7 8X / # JH+ JH +F E###a m JJ#-F- F+8 #F-' +JH#8<#-0
_ 8G F- #F- # 8+ #8 SF#8 I g ,2Y
#< h 9 2 ;) / 4 8X + #a m
+# F+) 5 , # 8X #- FG m +# F+
/ # ! $+ 82#F 1F F+ +F 8GF m 28X E8+ $ <
SF#8 I # ,*AY
#F UJ * i <#-J <F- * #) G
J *`W +8H#8<#-J <F- / h SF#8 I # ' 5 # _ w /
w + E i *#2## ! 8<H #m JJ#-# -F ' w2 ! _
/ - , ' # * ' w))
' ; #J +# < + E8+#J 8 FJF + 8 E8 ' 820
E + 8 E8 & J E 1#2# & 2E# #E#a m F # F2 # JJ#-# -F
=+) >1 f f. 9 2 7 # # 8J '12 + 8X FG #a m
JJ#-F- 8- 5 U / # JJ#-F- 8- / ,
, # r" / , ! ' # ! E8+#JF- ' J +
+82# SF# +8G F# 1#2# -F # 8 J + 8 m # E8 ! +#
J - +FJ ' K / #2#F- <8+ +#J#-U 8X G2 +F # +# F+ , Y
; <#-J <F- SF#8 I #
2 U1Y * UZ 9 2 ' ! , 7 2=
8 8X +81 #a m JJ#-F- 8- / , !
+8G I # # 8+F)) T ' JJ#-F- 8- 5 &
' <#-J <F- ' # !!! # f m SF#8 I # 8 8 # !
7 7 ' &FX J2#8 82a F+JH E#m
+# F+

B C (7 45 '" %' (1 @ (72= @=8 = : ' 7 1 8; '@8' (5=5' ;78 7458'8 (@7? 7 '7 1 ! =5<4 3 =5!
. 3= = 1 (4584 (@7? I ;34 ' 4 =5 (5(" =5 '5! ?4 I0 '8 ! ?4 I 2'84 ?4 (5 ;4 ‼ @!
B , C 249 (5?4 '78 =5 '<49 = : '' '= # (2! 4@ (55= ! (=5 (? - (' , !
B C = 1= 4! 0 45 ' ;" . 4 '8 <'2'" 245 ' ;" , ?" . 4 '8 5 2' 4 3= ; (55= ;=5<4 K = ? ' 24 =5I8
O '8 = L Q 4 ; '@ = 48 (: '22= ; ' (=8!!

A !

' ' nnnń 9 2' / ' ' ' ' / , ' ' # !' 822F '
8+' J28##JF ' 8 ' JF +F ' 8 m') H ' ' 8 ' 8 # ' # '
FX#2#F ' ' JJ28-# -' 8 ' $+8E# ' A ' / ' JJ#E8 2#-' O'
J##8U' E8 I - I# ' _' J F--# ' _' #F2 -' JJ#E# ' FE#8 -' H#8J' / ' G'
-' H 2EF-' -J # -F-m' <8++8X# ' JF ' -F#-' J F--# ' _' E8<+8E I# ' / G'
!' $ J8 ' # #8+F ' F E+#J# -' _' 1#2#F-' 8UF-' / , ' ' # !'
,' ' ' ' <#-J <F-' / ' # ' #+ 8 -#-m' SF#8 I# '
H 8-' -# 8' 8++ ' I8 # ' E' # 8+ # ,2Y') ' ' / ' ' / #'
') ' 8X' &8- # 8m' JJ#-F-' 8- ' ' G2#J#-' ' ' '
' ' ' / ' # ' ' 8' ' 5 ,!') ' ' % 2 ,!' '
8 ' ' ' ') ' ' 8 !' 8 # ' / ' ' 5 , ' '
/ ,!' ' # !' 8X' #+ # 8' JJ#-F-' 8- ' ' 2#8=#G8 #-' &# + # #F-'
*#2#F-' +E82 J#' ' +# ' JF2U-' + F-' ' & 2E ' ' +# ' 8G F '
J# -' ++8< F ' ' J + ' 8 m
' ' UWJ' H' 9 2' / ,!' ' 7 , ' JJ#-F-' 8- ' # ' !'
' ' , ' ' / ,' ' !' E8+#JF-' 8X<F2-F-' ' J + '
8 m' G ' E8' J#' JJ#-F-' 8- ' #' I# -' 8+F- 28 ' ' ! ++ J8 #-' J < '
8- ' JF ' +FJ8& # #J ,AY' / ' / ' <#-J <F-' '
_' 8G F-' #F-' # 8+ #8' # ' >< ' SF#8 I# ' ' ' ' / ' ' '
' ' 8X' ' # 8m' JJ#-F-' 8- ' <#-J <F-' ' ' ' / ' ' '
SF#8 I# ' / ' ' / ' ' !' +X' 2 JF-' / ' J F- m' ' '
' / , ' <#-J <F-' * # !' ' # ' ' % #' ' ' ' ' ' G'
' 8X' 2F+G8 -#- m' _' ' ' % ' ' / , ' ') G'
' JJ#-#' -F ' ' ' ' ; ' ' / ' ' # ' ; #J +# ' < + '
#8' H 8' E8' F+J ' <FE' 8G - m' F #' X I#' + 8-' E8' G2#J#-' JF ' 2##-'
JJ#-#' -F ' _' JF ' G ' J 1F-# 8' E' -F ' +8E#8+F ' ' ' ' 7 # '
_' ' d ' ' ' ' JF ' 1+ +8' -F ' _? 2##' F2 #' JJ#-#' -F
' ' & ' %' 9 2') ' % ' <#-J <F-' / ' SF#8 I# ' '
K ' ' ' # ' <+ 82# m' JJ#-F-' 8- ' <#-J <F-' / # ' SF#8 I# ' / ,!'
' !' ' / ' w' ' A ' J F+' 8 ' -FO'
<+8 F-' 8X' J# 8' 8 ' # 8+ # 8' JJ#E8 2#-m' JJ#-F-' 8- ' ' -F#-' / G

B C' =' (? 45 7' '5;'@'8' =:(55'8' 3=;' (55=' '5' O':4 5'(1 ' '?4' K' = ?' ' 24 =5I8' O'8 = L!Q
, Y' #8+ - 2 ' J < ' 8- ' ' ! 2 E# ' E#8' E ' J ' C_W' 82#SF ' J I8 #F ' JF ' -+ ' J +

! ' / .

' ' '% ' JJ#- -' 8- ' / ' ' ' / # ' ' / ' JJ#
- -' 8- ' ' ' ' 7 ' &FX' / ' / A ' +# F+
' #<' ' 2 U' * *#i' 92' #' / ' , #' ' ' I#-' H 2E#
+F +-8' F-' E8 8+- m' # ' SF ' XXXI#' I#+#' -F 8+-#' -F ' & ' '
Y' ' ' % ' &FX' J2#8 82# ' 2 G# m' _' / ,
' / A ' ' _' ' ' ' / , ' ') ') G
, ' # ' 1#2# m') A ' ' % A #' +#F +' ' ' # ' + ' 1#2# m'
% , ' ' / , ' +# F+' - ' # ' # ' 28 # ' 1#2# ' # 0'
G #m' +# F+
' #<' ' UJ#U' # Z 92' ' ' / ' , ' / ' _' ' ' '
' / A !' E8+#JF-' ' J +' E8+82# SF#' J# ' 8 ' <+ 1#J#-)'
J# F+' #+J 22# m' # ' ' ' A ' <#-J <F-' SF#8I#
#<' J JZ 92' % ' D') , ' ' ' 7 ' %' ' ' ' ' JJ#4'
-F-' 8- ' ' ' 7 ' +# F+
F') ' J J' ' 9 2 ,2Y' / ' *') ' ' / A ' JJ#- -' 8- ') , # A '
' 1#2# m' ' ' ' ' ' ' # ' 822#1 8' E81F J ' 8- ' 7 ' '
' , ' ' ' / ' &FX' J2#8 82 -' JF +#m' JJ#-FZ'
8- ' & ' / ' ' # A ' ' 5 A A ' ' 5 , ' - 8+#F '
-F2-8' 2 H+ ' I - F ' ' " #2 8 ' J' - 822 8 m
2 ' ' ' ; ' 4' 9 ,AY') ' ' % , ' ' 8 A ' ' ' ' 8X'
#--m' + FF-' 8- ' ' ' ' ' / , ' A ') '
/ #' ' ' ' JF2#-' + F-' <8+m' ' ' ') @'
+ # ' ' 5 , ' ' 5 , ' ' ' ' ' ' # ' ' , !'
X8+J# F-' JF ' " #2 8+ ' J' - 822 8' F-SF8' J + J ' ' , 22#0'
-H Y' 8 ' +8I8+ 8+F ' # E8' -SF8' 1+FJ F s
) ' ' ' ### ' 92' 7 ' ' # ' ' ' A ' 8+ #F-' -' 8 G'
' _' < - 8 ' 21# 8 -#-' <#-J <F-' SF#8I# ' # ' >< ' ' & # #J8' J +0'
#-' JXJI ' ' # # # ' I8+ ' F E#' ; JJJXJ#I , Y' / ' ') G

B C' K' ; 9 ; '' (2' (8' ; !9 ; ''' Q' '5' 1 ('54' =?' ; '8' ZM ' 4 ' 4; 4!
B, C' K' 2' (8' ; 9 ; ' Q' '5' 1 ('54' ' : !' 4; 4!' =5 45'75 5'8<(2!' (?' (55!' M !
B C' ' 4 8' (8' 48 ' (55= 7 1 ' , ' '5 4 ' 5= (8' #' 4 ' 57 1 X =8' . = 1 (5=8' 67' : 78 ' (?3A 45?7 1' 4884' (: ' (55='
^ ' 49 =8' '@84' @4 87(?4 !' 0 '5 ; ' 4 8'' 5= (8' '8 (8 &G79 (' = ?'54 1 ' '5' =?' ;4' 84 (7 1 ' ?48; ' : (1 '
w55=8' (1 y5' @=8 3(; ' G79 (']# ' ' ?48p 5(5?=8' 4884' 49'8 ' 1 ('!
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A f ' / # H 2 1#2# -)
&# + # ## I8 # 8 S # F-SF8 E +8G F -F2 + H 22 G#8 -#F m _
F2 - # 8- JJ#E# # I# _# # < - 8 < J8 # # #I# @) D 7
/ , ; #J +#F-m / ? 8 SF#8I#
^ Z . ' , 4 # # !! G
7 - / / , # _
/ , K ,! 2#8 82 JJ#- <8+ 2G +GF ' F +J0
E8+#JF- 2 H8+ I8 # # J - + 2E# F- +F +-8 8 < X # #
8E# 8 ; #J +# $ +#J# 8#- m & 5 ! # JJ#-F-0
8- , Y 7 # JJ#-F- ' # ! / , ' #"
JJ#-F- 2#SF ! G# +# E8 1 #2#) ' _ # 8 E8 #
Y ' JTJ#E# E8 F / A 2E# -J # -# m^
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' / _ # 8X 2##- 8 G ##8m +# F+
& 5 +) +8X# / _ < - F F 8 -8 #<-80
JF F2 #- 2##- H 8 b 2(JJ#-F- 8- / ,)
' # _ # 8X U2F+G#a 8 + #G##8m <FE F822#F # #
J 2# + ##F- 8-4) 8 # JJ#-F-)
+ . + 4 4 . 92 / , 4 -F<+8 -0
8X # 8+ # - #F-m +# F+ , Y

, Y E8X 2 +8 E B_L H 8 -
,AY E8X B_L 0) K ; # B 8 E -8 # 1 22 + # E#J8 # F- > > ;
B C . =?4 ';' 72 '1 O':4 5'84 . 4 '8 O':4 5';" 8(5 7'5'8 =:' 71 4; 4 4<4 75 3 55(m8 (? (55!
8? 75?4 ;= ' 45? 8'1 =1548 67 (55=8 (2' 4 ?48' 5((! 2(34 478 45' ((557 1 475?4 1 ;=2&
24 ' 49 K % # % 3 % # % #-) # " , % # - B e
67(?'48 =:' 78 3'8 4 :'8 '5?'; (7) K #(2! (5! <4 '(275(99 (557 1 4;455= 45(2'8 L;2' 4
K '8849 '2'8 (@4 '45 ':78 . =?4 ';78 ''2'78 = ?;2 (;3 I =5= . 49 O':4 5' 4 '5= 778
K 48 '' #(2! 44! ?'4 =1 '5';(75('8 (('8 ,Z ;4 ('8 87(4 (55= 999''! =8 67(1 ?4;45
K (55=8 (1= 4 ('8 =55(; '=4 @ (<7'884 4 '5?4 (55=8 9 '' = O':4 5'^ ?=544 1@4 '= 84
K 72 = (:?';(4 ?'1'88'8 '5 87(1 4 '=545 8'5 72'8 O':4 5'(4 =:8'?':78! 4?4;'1 4''67=8 ' 4
K (55=8 (0 7? =5 (1 ! 4;3'5 =5(8 4 '71 878;4@ (@4 4 '5('=54 (? =:' 71 ;=5<4;' ! 5?4
K ;= @78 4<<4 7 4 (: 67'2=5(2(4 4 (2 ('8 '5 87 (1= 41@'= 67(?4;7' @=1@(84@4J
K 2' 7 @=8 @(21(1 @4 4 '5('=5'8 4 @'= 71 =@4 7 (=: 45 (1! 7 71 (45 71 4 1 72 ((2'(
K :=5(4= @(7@4 ':78 75' 4 8'~ O':4 5'(4 ;;248''8 . 41(5 4 4 '('5 (; O'4 =8=2L1' (5(8 1= '458&
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$ X 1 J ˁ ˁ 2# 2J2 ˁ -J # - ˁ 8 ˁ ˁ H 2E ˁ F-ˁ +F + ^ˁ H 2EF-ˁ
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L) Z) ˁ 14 9 2 ˁ) ˁ ˁ ˁ ˁ JJ#- -ˁ 8- ˁ ' ˁ ˁ
8 ˁ ˁ / ˁ / , ˁ_ˁ ˁ / , ˁ ; #J +# ˁ ; E# #+ ˁ J
+ ˁ 2EF ˁ F-ˁ +F +88ˁ 8 ˁ - + G8-ˁ J 8 -#F m F # J8J#E# ˁ k
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8# < + 2# ˁ # ˁ H J# ˁ -# 8 I - # 8 ˁ 8 ˁ ˁ +J2#SF8+F ˁ 8# <2F ˁ I 82
2 +8 ; (J +F ˁ I 82 #J +F ˁ SF E ˁ -< 2# I 8+F ˁ # ˁ F ˁ ˁ
E ˁ 1F8+# ˁ F SF ˁ 8 ˁ J 8 -# F-ˁ I # E#J ˁ 1 #-ˁ 8 ˁ FE# #-ˁ
-# #2#-ˁ HF#J m
*2 ˁ B) 8 h ˁ 9 ˁ ˁ ˁ) " ˁ ˁ 4 1 ˁ 8X 2 #*8m JJ#-F-ˁ
8- ˁ / ˁ / 4 ˁ ˁ / ˁ / , ˁ ˁ) ˁ ˁ / , ˁ
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H 2E ˁ F-ˁ +F + -ˁ J + ˁ &# + # #F ˁ 1#2#F ˁ JF +# ˁ $+32#F# ˁ 2#FE
J + ˁ 2 J F ˁ # ˁ ! ˁ E =88 - F2# ˁ I 8-ˁ <2F+# -ˁ -8JF ˁ
E2 ˁ '&F* / ˁ +J #8<#-J <F-ˁ J# a ˁ # ˁ H+#- ˁ SF#8 I # ˁ ; #J +# ˁ 0
+ J # ˁ : F8+JFF ˁ J + ˁ / 8+ JH8 -8- ˁ J + ˁ ' # 22 - ˁ 8 ˁ #+ # - ˁ 8 ˁ
#+J 22# - ˁ # # 22F-ˁ ' J #JH 8X / 8+ JH8 -#-ˁ JJ#-F-ˁ 8- ˁ 8 ˁ 2##
F2 # ˁ H 2EF-ˁ F-ˁ +F +a I 8+ ˁ <8++8X# ˁ JF ˁ -F#-ˁ E J - 822F ˁ H 22#0
G# +F ˁ 8 8 - ˁ ˁ I #J +# ˁ ' # 22 +F ˁ I - ˁ 8- ˁ J828-# ˁ + J -ˁ
: F8+JFF ˁ 2 JH ' J + , Y $+# -ˁ #F-ˁ # 8+ #a SF#8 I # ˁ #

K ! 2

H+#- m _ -8<F2 F- 8- ' ! ' /#J +*Z
+E2 E+ 8 -#- J + m ; / _ 4# F # SF F + + 8-
E8 ' # JF 2##- F2 #- JJ#-# -F $ - 8 +8I8+-# -FF F-SF8 E

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8- 1 J 8 <8+ # 22F 8 J I8## # 8- F #I8+- 28- E 8F 2#8 #G8
8+ #*8 J G+8G E 1#2#F H 2E# F- +F + - 8 #8 -8-
2 # G8 # 1 J <8+ 8 - 8 I - # 8- G G8 8 H # # 8- <2F+# # JJ#-#
+J JH 1#2#F- + # 1#2# E8+#J# 8X<F2-F- 8 +8G# 8 -F 8X +
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I - +8G# 8 8#- F F FX#2# m
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28J#- J#+J 18- F +#G#E-8 8 + F # 1F# 8 8 <8- #28 #
G # ; 8+8 #- J ++#<F# < <F2 - X8+J# F- J J - 9 # 22 E =88
I8 # # J# _ # 2# - < + 8- SFV #- 12FJ Fd-8^ 8 8UF- J 0
I8 # #2# +#- H # 8 -#E8- #+J 22# 8 J < # 8 1#2 - 1#2##
& 2E# $8+G 2 H E8 JJ#- - 8- m
+ * i 9 2 / / , w + ' !
' + E # , _ 5 / , , ! '

8+ #a E8 SF -F<+ E #<- # F 8UF- +818+F ; G#- +# < +# 8+ E F# # A Z
#E8 SF8 8- JFUF- E J82# F- /F+ 8-#F- # SF# # $+ 1 # 8 -8 I# ! $ +#J## -J+#<-#--8
, Y +G# 8 E#J#- 2 +8 E # # B_L 28G M > E88--8

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8 ˢ<8+ˢ 1#2#F ˢ " 1/+8E#ˢ +-H ˢ /#2#F-ˢ " #1+8E#ˢ 8 < F-ˢ 8 ˢ 2#8 #G8 aˢ 2##ˢ
- F2 +#F-ˢ H2 8 -#-ˢ JJ#-F-ˢ /#2#F-ˢ + HF+#ˢ8 < F-ˢ8 ˢ8UF-ˢFX +ˢ8 ˢ8UF-ˢ
E F-ˢ8 ˢ<2F+# #ˢG8 #-ˢ-F 8ˢ / + 8-ˢ G ˢ# ˢ # 8+ # ˢ & -28 #F-ˢ '" + ˢ
8Xˢ #-ˢ # ˢ JJ#-F-ˢ ˢ"#2E ˢ+F1 ˢ#ˢ8ˢ ˢ1#2# 1+ +#-ˢ-F# @ "#2E -ˢ+F1F-ˢ J
J#-F-ˢ 8Eˢ1#2#F-ˢ H 2E#ˢ 8X<F2-F-ˢ8ˢ+8G ˢ-F ˢ#I#ˢ# ˢ!8< 8 +# 8 ˢ8ˢI8 #ˢ
E8ˢ # 8+F ˢ J# ˢE 8Jˢ JJ8--#ˢ / ,ˢ 8 ˢ+8 F28+F ˢEF ˢ1#2##ˢ +0ˢ
E82 JH#ˢ ' J +ˢ I#J +# ˢJ + ˢ8F ˢ8 ˢJ < #I ˢ18J8+F ˢ8UF-ˢ FX +0ˢ
8 ˢ8ˢ - F28+F ˢ# ˢ -#E8 ˢ-8JF ˢ8 ˢ / ! ˢ ˢJ - +FJ F ˢ
ˢ" #1+8E ˢ8ˢ - 822F ˢ ˢJ - +FJ F ˢ ˢ8#-ˢ# -F<8+ˢ 822F ˢ G8 -ˢ
8+ˢEF -ˢ1#2# -ˢ E8+#J#ˢ 2 F #8 -#-ˢ#ˢ8ˢ 8Eˢ8ˢ +E82 JHˢE 8Jˢ E8- +FX0ˢ
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^2Ž) ˢ ˢ ;ˢ 92ˢ ˢ ˢ / ˢ / , ˢ ˢ / - , ˢ ˢ5 ˢ ˢ
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? J H +ˢ I#+ˢ- <#8 #--#+ F-ˢ8ˢ G#2#--# F-ˢ# ˢ # 8+ # ˢ JJ#-F-ˢE 2 -8ˢ# ˢ
E ˢ" #1+8E#ˢ +-Hˢ &8I - #ˢ G ˢ#ˢ J# ˢ ˢ + J ˢ : F8+0ˢ
8FF ˢ , 22#-8E8+8Yˢ F-SF8ˢ 12F 8 ˢ '/# JH+ J +F ˢ ˢ E8X + ˢ < FJ#-ˢ
8XJ8< #-ˢ # ˢ 8ˢ FG ˢ 8 ˢ G8 8ˢ #?8G# #-ˢ + 8 J2 ˢ & I#Eˢ '/2# ˢ
&FXˢG8 #-ˢ 82+F # ˢ + FF-ˢ f- ˢ 8Eˢ 1#2#F-ˢ E8+#J#ˢ # 8 ˢ 8G F ˢ
J#J mˢ ' ˢ #ˢ% , #ˢ JJ#-F-ˢ 8- ˢ 5 ˢ ˢ ˢ ˢ
ˢ + FF-ˢ 8- ˢ !ˢ ˢ +JH#8<#-J <F-ˢ &F 2# #8 -#-sˢ
SF#8I# ,2Yˢ 5 ˢ ˢ ˢ/ ˢ ˢ, ˢ ˢ / + 8-ˢ # G8 -ˢ # ˢ
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') ' ' U$;4' 92') ' ' ' / #' "UU ' !' ; '
' ' JJ#-F-'8- ' ' ' '5 ,'$+# +'& ' ' ' ' '
'_' !' / ' ' ' ' ' 'X ' $+# +' - 8+##' -F2 8'
' J' 8+# ' I#+' I 2E8' +82#G# -F-' 8' J' 8+ JH 'E 8 #--# F-' +8G# #-' # '
$ 8-#' +#F F+㎡ &# -#F-' 21# 8 -#-' <#-J <F-' <#-J < F#' -F 'J8--#'8 4'
E8 ' ') ' 5 #' '+ # ' # '8 ' I8 8+ #2#-'
- J8+E -'E F- H# ##m# '1# 8'8UF-E8 ' #' + FF-'8- JFUF-'J +<F-'EF '<8+'
d #J -'_ 2# -'J28+#J - `WW' 21# 8 -#-' +JH#E# J #' E' -F2 # '!J8 +# # 0'
#-' E'-8<82#8 EF '< + +8 F+ 822 +#F- G F-E8 F822# '8#-'# 'I# ' I# I# '
SF#'E#X#'SF E' <FE' J -'E8' F822# '-8<82#+#' 828G# '8 'SF#'F #I8+- -' 0'
JH -'_ d #J -'8UF-E8#' - 8+##' JF '-F#-' -8+I8 # F-'F #'<8+'F F 'J +
<F-' UF+#-' +E# 8' <+ 8< -# '-8JF ?EFJ8+8 '# 'F F 'J 228G# '_'# 8+' #<- -'
J -'_' d #J -'_' 2# -'E#I8+- -'8UF-E8 ' +JH#E# J #'# ' + '8-'E#-0'
-8 # 'SF8' 2# 8+'8-'- <# 'SF E'J +<F-'# ' 8 <2 ') 'EF F-'E#8 F-'
_'EF F-' J # F-' E8'J -8 -F'F +#F-SF8'< + #-' -F '-8SF8- +F ' $ ++ '
E#8' 8+ # ' # F-' JH#-'E8'8 '_' 28+#J#-'E8' ' # # ' # 'F F #'
J 228J #-' J <+ #--# 8 '# 'EF -'I#+ -' E 8 -' 18J8+F ' / J ' F 8 '
J <+ #--# 8' _'2# 8'J 8- '_' 22#G # # F-' <8+ J #-' E8 F+ '#<-F# '
J +<F-' - 28' !88' +# # #-' E'-8<82#8 EF ' EUFE#J F '8- ,2Y
'KnKG 92') ' '& ')+E G# 8+' ' ' '
8 ' +# F+' ' ' ' ' ' / , ' / ' / ' '
' <#-J <F-' ' # , ' + F#' -F ' -8<H' % #
<#-J <F-' / ' + FF-' 8- ' 5 ' ') #' <#-J <F-' # '
+ FF-'8- ' =K ' 2<H' $8 #'f㎡ <#-J <F-' ' ' ' I#+' +82#G# -F-'
_'J +# #IF-' _'&8#' 1 F2F-' # ' >< 'SF#8I# ' + # ' ' ' ' '
' '8 #' ' ' ' ' ,'5 ' '_') ' , ' '
8 ' ' # ' ' / '_' ' # ' ' / ,' ' # '
' ' ' ' ' ' ' / 'X' ' / ,'W' ' ' , '
' ' '_' '" ,) ' '* #' '+ ' ' #'
_' F2 #' 2##' J'#<- ' '-' ' ' #' ' ' ' ' '4 #' ' ' '
' ' #' ' / '_' ,' - '_' ' ' '_' ' # '

B2C'*. 48' 48 ^' 37G78' (55'' 49 (5 '87:' 4=?41' (55=' ,M' '5' =?';4' 5'43': (54=' =V4584' =! '
;7'' 2' 7278' 55(2;8' =55(;'(G!'

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X8+J# F- # G8 - 1 J F- #J2# +E E8 F+G -# F2 JF &FJ# F-0

2#8 #G8 +F # 8+ # - 8 & JH E 0 ' +# J G ## / , !!

; 8 8+# J# 8 I8 8+F F-SF8 / , # 8 8 F+

H E#8 / -8E < + 8- I#J +# J + 8EF # 1#2#F E8+#J# J +

8G8 J# 8 8 J + JH 8 -8- 8 8X<F2-F- 8- 8E 1#2#F- E8

+#J# 8 JJ#- - 8- & J2# ' + JH F#G -F<+8 #F- & FX 2#8 82+8 *F+8E G#

8 #U#F2 # 2## JF #<- JJ#-# -F 8 I8 # F- # # +F- -# F2 JF FG 8

E8 J# F-SF8 E $ 8 F<#- JF- H8 8 #^8 -# F -8<0

8 EF F- J # F- # # 8 E8E# +8G F / 8E2# #E# 1#2# 2# 2E#

F- +F +*8 8 +8E## +8 + < - 8 8 E#-- 2F F- 8- 8UF- 8X8+J# F- 8E

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<<#EF 8+J F- -E#1#J +8 <FE $ + F F<#- , # 8 <<#EF F822#F Y

&# -#F- <#-J <F- 21# 8 -#- SF# E8+82#SF# <#-J < F <+ &8 8

SF# +8 # F# H -<# #F <+ &8 8 <+ 2 +F- J F228 +JH#E#VJ

21# 8 -8 8 <+ #J#- 8UF-E8 -<# ## X I ### 9 28 E +F F + [

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' '% ' ' !') ' '% ' '8' 7 ' # '
' 5 ,!' 8E' '/8++ 2' &FX' G8 #-' G 2# 8' J ##- F-' '1 +# F-' # '
-F2 '2 JF-' F ' #JH +J2F-' E8' F+G ' U8E#1#J ' - 8 F ' G 22# U' 8 '
E F-' ! ' -8E#1#J ' - 8 F ' &F ' JF F+' 1#2#F-' 8E#' J2 '
F1FG# ' ' 2#8 '#G8 #- '8 '1#2##' 8G#-' J#-8' -8' -- J# '8# '8 '8F '# #1# - '
?8 #1##' JJ#-# ' & JH E' 1#2#F-' 2 JH#' + FF-' 8- ' /82# ' J2 ' F1F
G# ' ' 2#8 #G8 #- m' J' ' <+8J2 +F ' 21# 8 -8' '# J8< F '
8- ' - 8+#F ' #J +F ' 8GF2 +#F ' <FE' # ' --F 8 -' -8JF '
8H -' E8' - 2 ' ! J8' +# # #- ' # ' F ' I8 -' - 28' +# # #-' F +#O'
SF8' -8+I#+8 ' - 8+# ' 2 8+ # ' F ' SF#' F ' ' -8+I#+8 ' # ' F ' 2 8 '
-8+I#+8 ' # ' 2 8+ m' , 2Y
C 4' oC f4' 9 2' ' 18+' I## ' + # ' ' 7 ' ' / ' '
/ ' # ' ' # ' ') ' G# ## # ' _' # ' '
' ' ' ' w' ' ' ' # ' ' ' ' ' '
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w' ' ') ' ' ' w' ' ' ' ' ' w' ' '
w' % ' 8 ' w' ' ' , ' w' ' 5 ' w' 5 ' w' 5 ' ' '
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JF ' / 8E2# #E# ' ' J +' J# ' E =88' 18J8+F ' J - + ' <FE'
&+F # G 8G G# ' 8 ' E =88' -8' - J# I8+F ' G8 -' 82+F E##' JF ' 8 ' 8 '
+8-' +8G# 8-' F H ' 8 ' #8+F ' # -8SF8 8-' 8EF ' 1#2#F ' E8+#J#' 8G8 '
J#-8 ' E =88' +8 F28+F ' I#J +# ' E8' 8 ' 8 ' JJ#E8+F ' 8EF# ' 1#2#F '
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E8<+8E -' JJ28-# -' 8 ' 28+#J -' SF#' 8XJ F #J I8+F ' 8 -' 8 ' 8X # X0'
8+F ' 8 +F ' J E82 -' X8+J# F-' JF ' " F2#82 ' E8' J ' 8 ' JF ' 2#80'
#G8 #-' #E# 8' &8<+ 8E # 8-' # G8 8-' # ' +81F# ' 8 <8' JF ' ' G 22#G'
, ' 8#22 Y' JF ' H 2E ' 8 ' JF ' J JH ' 8UF-' I ' E =88' 18J8+F '
<+ J2 -' # G8 8- @ F+ ' F 8+ - ' G8 #-' ' G 22 G#' I8 # ' E' " F2#82# F '
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+ ' 8 ' 2#8 #G8 W' 2##' 8 ' " F2#82 F-' E8' J ' I F2 8+ F-' # #' 8 ' 8+2 -'
' H 2' 2 F-' ' +' 8 ' F+ ' F 8+ - ' 2# ^' 8 ' +8 I8+ 8+F ' 8X' +8G# 8'
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J <# 8ˢ SF -ˢ +82#SF# ˢ # #ˢ E8+82# SF8+F ˢ 2 JF ˢ < - ˢ 8F ˢ 8 ˢ I8 8+F ˢ 2#8 #G8 88ˢ
F-SF8ˢ -F2 ˢ +# # #-ˢ Eˢ <8 8 E ˢ < 88 ˢ E =88ˢ 8X<F2-#ˢ 1F8+F ˢ # E8Zˢ
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, !ˢ F-ˢ I## F-ˢ X F- ˢ 8 ˢ XX F- ˢ 8 ˢ J8 F- ˢ 8 ˢ F- ˢ 9 2ˢ ˢ E#8

B Cˢ %'?4ˢ 67Aˢ ?4ˢ <48 =ˢ (1 3'5ˢ ?'; (ˢ 875 ˢ '@ˢ '884 ('=54ˢ 5=8 (ˢ ?4ˢ @8; '@ '=54ˢ * #G ˢ '5ˢ 55(ˢ
5'8<(2!ˢ (?ˢ (55!ˢ 8 ˢ @!ˢ - ˢ 5= !@!
B,Cˢ %'?4ˢ '5< (ˢ (?ˢ (55(1ˢ , ˢ 5= ˢ !

! ʿ

+ #-ʿ X)8 # ʿ< - F2 ʿ<8+ʿ F- # # +#F ʿJ + ʿ /8E2## #E#F ʿ<+w 8X F
2# # F# ʿ8 ʿ<+ 18J F-ʿ8- ʿ8XJ+J# F-ʿ# G8 -ʿ# ʿ ##8 82 # ? J ##ʿ8 ʿ<8###0
F-ʿ<+ 12#G I8+F ʿ8 ʿ8X<F2-8+ ʿ8F ʿ $+ 8Ew # G8 8-ʿ1 J w ʿ F- # # +# ʿ
8 ʿ I8X I8+F ʿF-SF8 #G8Gʿ, ! 2#G f Y # ʿ +8G# 8 + +#w ʿ8 ʿ I#J8+F ʿ# # /8J20
2# #E#F ʿ8 '& 822F ʿ8 ʿ J &# + EF ʿ8 ʿ # F8+F ʿ<+wE -ʿ U
+8-ʿ F ʿ8 +F ʿ8 ʿG8 #-ʿ8 +F #ʿ JF ʿSF# F-ʿI8 #8 ʿ# ʿ J# ʿJF ʿ
+8 F-ʿ 2##-ʿ8 ʿJ8<8+FF ʿ# #E8 ʿJ < #I -ʿ<2F+# # -ʿ8 ʿ - F28+F ʿ-8JF # <+w
E -ʿ-#J u G / ,ʿ# ʿ 2F+G ʿ 8 ʿ F- # # +#F-ʿ F-#ʿ <FE # EF ʿE JJ
I8 8+F ʿ /82# ʿ+8E## ʿ J# ʿ8X ! 8< 8 +# 8 ʿ8 ʿ F2 # FE# 8-ʿJF ʿ8 ʿ
E 8J #8+F ʿ# ʿ+8G# 8 ʿ ʿ #w ʿ 8 ʿ I - I# ʿ ʿ8 ʿ J +F-ʿ
1F2 I F-ʿ # # JJ#-F-ʿ # -8SF8 -ʿ <+wE -ʿ J+ #F-ʿ + J 82# ʿ ! J8+E -ʿ
9 #2H J +8 w + FF ʿ8- ʿ 8E '" # 2 ʿ ! J8+E -ʿ 9 #22+ EE 8 -#-ʿ8 ʿ 0
#JF-ʿ#-ʿ8+ ʿ +E2 #-ʿ -F2w +# # #- ʿ # F-ʿ8- ʿ J 8 2#- ʿ 8 ʿ 1F# ʿ
ʿJ2# + ʿ< - 8 ʿ< -# F-ʿ E J F ʿ #--w E#8 -8SF8 8 ʿ8 ʿ-8<F2 -ʿ8- ʿH 0
+#1#J8 E#8 -8SF8 8 m R
< 8 #y? ʿ 9 2 ʿ ! ʿ) W ʿ ʿ , ! ʿ2 ! w ! ʿw ʿ ! w ` @
7 ʿ *ʿ / , ʿ ʿ ʿ ʿ / ʿ w / ʿ *ʿ # : # ʿ
ʿ / ʿ ' # # ʿw ʿ8 ʿ # ʿ / ʿ# ʿ ʿ ʿ
/ ʿ ʿ ʿ # ʿ ʿ ʿ w # ʿ ʿ ʿ ʿ ,ʿ # ʿ ʿ
ʿ # ʿ# ʿ ʿ ʿ ʿ ʿ / , ʿ ʿ / ʿ ʿ - T 2
ʿ ʿ ʿ # ʿ ʿW ʿ / ʿ# ʿ ʿ ʿ ʿ / ʿ ʿ
) W ʿ # ' u# #T # ʿ# ʿ # ʿ ' # # ʿ# ʿ # ʿ ʿ # G
ʿ ʿ ʿ w ʿ ʿ ʿ) ʿ ʿ ' #!2 V) ʿ *ʿ 7 , 2 ʿ / k
ʿ, ʿK # ʿ # ʿ+ , ! / ʿ+ a ʿ ' ʿ ʿ ʿ G
,ʿ % ʿ # ʿ ʿ ʿ ʿ ʿ # ʿ ʿ ʿ ! ' ʿ ʿ
ʿ ʿ , ʿ ʿ ʿ ʿ ' # ! % ʿ / ʿ ʿ ʿ
/ ʿ#ʿ >< ʿS ʿ / ʿ ʿ ʿ ʿ+ # ʿ ʿ / ʿ ʿ ! % G
ʿ ' ʿ / W ʿ ʿ ʿ / ʿ ʿ ' ʿ ʿ ʿ
ʿ ʿ ʿ ʿ% ʿ ʿ 4 ʿ ʿ ʿ / ʿ ʿ # #!
9 2 ʿ ʿE#8 # 8+ EF ʿ U8UF # ʿ F-ʿX I ### I F-ʿ 8 ʿXX F-ʿ 8 ʿJ8 F-ʿ
8 ʿ @ /82# ʿ ? J + I8 # ʿ J# ʿ 8 ʿ FJ JH ' G822#G ʿ
, ? 8#2 Y 8 ʿ H 2 G+ GH] #22 ʿ, 8 2E- Y 8 ʿ ʿ +F#F## 8 ʿ J ## ʿ
E =88 #8+F ʿF2 + ʿ F+2# ʿ I8+-F-ʿ ! 8< 8 +# 8 ʿJ + ʿ1#2#F ʿ E8+#J# ʿ 8 ʿ
E8E8+F ʿ< w2#F ʿ8#-ʿ 8 ʿ I#J +# ʿ+8 F28+F ʿE8 8#-ʿ 8 ʿ 18J8+F ʿ<+wE -ʿ#
G8 8-ʿJ + ʿ J +F ʿ1#2#F ʿ + J# # ʿ+8G# 8 #2E2)ʿ8 ʿ + - F280

+F '< - 8 ' I8-' - <+ '2 JF ' H8 ' E =88' 8X<F28 '# E8' + JF ' J'
&# + E ' 8G8 ' 2F+G#-8 ' 8 ' I - I8+F ' #F+G# ' 8 ' +82#SF8+F '# '
+8G# # 8' +8G# #-' 8 ' 2 JF-' & JH EF ' 1#2#F ' F+JH8+ G#' & F-' '/ #?
EF + ' ; #J +#2#Z' $ +#J##' E8J8--# '# ' ! X # ' $+# 0 ! hEF-' H # ' ' 824'
#'# ' ' JH ' +JH#8<#-J < ' F 8 -8' <##E' H2 # ' I8 #8 8' E'
8F '$ 22# ' ' ' F+J8+ JH' 1#2#F-' E8+#J#' JJ#-F-' ' 1#2# ' ' G F-# '
H -' ' F E ' <#-J <F-' <#' +' ,# ' 8' E8+8 -#- Y' # ' H+#- '
SF#8 I # ' " #2E -0 8-F' 1c2#F-' #- +#8 ' <#-J <F-' J 88 -#-' ## ' #0'
' - 8+# ' #J +F ' 1 J ' # ' 8 ' 1F E 8 '< -#2 ' ' 2 +F-# ' J'
82# ' +JH#E#VJ ' 21# 8 -8 ' # ' -F2 ' +# # #- ' # ' 2 JF' -F<8+# +8 ' <8'
J I8 # #-' H 2E#' ? 8#2 m
Q A' ' 1 ' 9 2' !' ' ' !' ' ' !' w' ' !' w' ' !2' / ' '
5 #' ' ' ' 8 ' 9 2' ' E#8' U8UF ## ' F-' #- 8' X2 F- '
8 ' JJ+ #F- ' 8 ' ' H 2' J' " +# H G' & F X' <8+# F-' + FF-' 8- m' , Y
^ c ') ' J' (' 9 2' A ' ') !' 9 2' ' E#8' & # #J m@'
2 +F-' +JH#E# J F-' 21# \ -#- ' I#+' <+FE8 -' _' E#-J+8 - ' SF#' J + 8 ' -F '
U8UF ##-' _' + # c F-' J8+ ' SF#' < F<8+8-' _' +1 -' E818 E8 ' SF#' < 0'
#8 ##8' J + ' -8+ I ' SF#' <8+-8JF # 8 ' ' F2 #-' <+ < 8+' UF- # # '
< #8 F+ ' I8 8+ #2#-' 1F E I' 2 J +F ' 1+ 8+ # #-' ! J8 +# # #-' <E+' #'
8+ # ' _' -<8J# 2# 8+' 1F E +' - 8+# ' ! J8' +# # #-' <FE' ' / '
F #' 2 JF ' -# #' -8<F2 F+8' 828G# ' # #E8 ' # ' > < ' SF#8 I # ' ! ' & # #J8'
$8 8J - T-' ' & #' J J X # ' JFUF-' # 8' <+ <# #8 F+' & 8F-' < # F-' # '
J82 ' JF#' #<-8 -8+ I # I # ' # ' -8J 2 ' # ' JFUF-' H +8' JJ28-# ' E8' 8 E8 I # -# ' 8 '
- 8+#F ' ! J8' +# # #-' <FE' ' ' ,# ' 8 ' 2 JF ' -F<8+# +8 Y'
8 # ' ! J8' +#' # #-' <FE' ' ' ' # ' 18 # # ' ! J8' +# # #-' <FE' '
8E#1#J I # ' <+ ' JFUF-' # ' SF#2# \ ' 2# +F ' 28G8 -' E#J ' $+' + ' , AY

B C' 55(2'71' =5'458'7 5' ;=5 '57(= ' (?' (5571' ''567') K' 4?2'1'?' * =5;=:(' ' ' ' '5'
K' 5 2'(1' (?' =1'571' . 4 =1 ' 4 ' 2'=5= '<';4' 4;4@ 78' 4?'' ' (?' ('(1' 87(1' ;71' 1(5(' (7 3=&'
K' ' (4' 4 ' 3=5= 4!' =55(;78' <'''78' 2'=1 72 3(;3'' 1(;' '(1((' 4 571' .7@'8' ## - ' 878&'
K' ; ;@' !Q' =?49' 2(45?!' ' '5' ((2= =' L8;=7 3' ZM-!' =' 4 8' ' 49' ?'; '8' (?' (55!' , '
'?4 4 7 ' ;4 1' '8 (1' 4=' (55=' ?48 7; (1' <7'884' '''3'2' (545' (2'7?' '55775 ' 4 :(' 7 = (@3' ' 5'8''
;=58'2'71' 4(5' ?48 745?'' (@@ =:(71' <7'884!' *+
B,C' 5' =?';4'] 2(45?=5'(5=' @ A?'; =' 3A;' 3(:45 7 ' (?' (5571' 375;) K' =5(2?78' (578' <'2'78'
K' '=245 '8' I =5542' 67'' <7' ' 49' (: '84' 4 1(5(3' '(22'A' '5<4 '=9'8' 4' 4''U1' =55(;'A' '5&

Ź) ' U+2 * 1 9 2 ! # # 5 A G
FJ# # 2#- W R8W 5 G , /
9 2 E#8 2F a 8 # 8- # G a # 8+ 2#8O
#G8 - # 8+ # 8 'H J <FE ; EF #G FJ# # 2#- 1#2# 1#2##
" #2E#8 #G+# ' G E8 1 #2# +EJ + 8 -8 m E8 I _ 8 J I8+- O
#- # >< SF#8 I # 18+# #I # $ -J#2 _ /)
F- $+8-<1 8+ 8 #2#- # >< SF#8 I # 5 A G ' A #
>< SF#8 I #
+8 2 # #Ź 2J ! ! 9 2 E#8 <+# # U8UF ## m) A
/ # +JH#8<- ? A "A / @ ! V A + " <- SF#8
I # # 2 + FF- 8- & # / #2# # #-m
+ F 8- R / , * / F % A G
/ ! I 8 # H # <#-J < 21# 8 -8 <FE ! 2I O
H8-# # 8 2 JH ' J + m 4
) U+2 ## 9 2 2 ! 9 2 E#8 # 8+ EF U8UF #
8 E#8 I #- m@0$ X # / 2# 8+
2 < 8 2 1#Ź 9 2 ! -8SF8 8 - 3 9 2
J#E8+F # E#8 U8UF ## # 8 # E#8 ; 8 8+#- m , Y

K <4 '= '8 78674 (? # (; =5(345 4 5'84= (5 1= 778 48 '5 3(: ' 7 ; (5" =5(;3' '224674
K =5(2?78 (578 ?' 1 '57' 49 = 8'=548 (2'(674 =54 (87'8 87 : ?' '8 4 = 1 5'((1 @4 <4; 4 '5 87(
K ('('5 ;' '2" 7 : 4 5('=5'8 <= 1(4?(; (4 ;4 '8 7 '2' : 78 ;=58 ' 7 '=5' : 78 ?4 ;=58'2'= =;4 &
K 7 1 4G78?45' *@ = ;=1 1 75" 787 '5 4 =1 '5=8 4 87 : 4545 48 <(; '8 4 ;=5'R 1 ('8 '5 87(' ('8';
K 4 ' 7 =1 5'7 1 48 '1 ('=54 54 1= 49 4G78 454 ('=54 (4 1 @= 4 ?=5'8 I =5542 2 <'2'" 5 1 '&
K 4;3" (1 : 454 49' '2(' 7 '8' 1 '2'8 # %# # '5 : 422'8 49 ' @(5?'8 4 '8' 1 '2'8 = &
K # <'2'= 4G78?4 1 '5 (867' (4G7?' ;'= 7 1 4 8' 1 '2'8 ! # # # '5 49 ' @(5?'8 4 4G' ;'45?'8
K 2'45' 45'8 4 ?' 578 8=;'78 # 1\ # '5 : 422' ;=8'8 482'8 4 '5 42' '=54 4 '545?(?' ;4 4 7
A 67" 4 57 1 =55(22' ^ ';' 4 42'67' 87'8 @=8 4 '8! 7" 87; ;488' <'2'78 4G78 + 67"
A 75(; 1 '(5= I 4'2 ; 7?424 : 4227 1 ';' =5 (+ M - , 4 41 = ''545841*
K 67" '5 '2'= : 422= ?' ; = #- ' =; ;7 : 7' ! 7" 87; ;488' '@84 # E ?4 ;=584587 = (5&
K 458'7 1 4 =5(22458'7 1 <4 4 =1 5'7 1 !Q J U *
B C E (178 '5 ((2= = 87= 7 1 =?' ;7 1 4?' = 7 : 2'5'" = % 3(: 4) K 94 1 @2(
K 55(2'7 1 =55(; '4''8'7 1 8' 4 =45= : '" 7422'478'8 78674 (? (557 1 , - ! ! " -#"% 49 (
K '5 ' : 2'7 . 4; (= =5'(5(E 48 1 =5(8 4 ''!Q
67" 4?' '= : (84 49 '8 4 =?' ;4 ! -# %7 ?48; '@ (48 !

% ! !

2#-#   ! /   !

!+!   A 92!

- <- +
, !! \ 1 !!!!!!!!!!!!!!!!!!! ;b<H
w ,Z !! | 1 !!!!!!!!!! ! !!! ! #
-   =
R71   '1''1
,M !! 6   0
m !! '*'''?= 51 !N !! 7' (71
!!! :'5 8 =*!!!!!!!!!!!!!!!2 8(=
! K K!& ;. / K! K &
2 , * f
B G B ! !

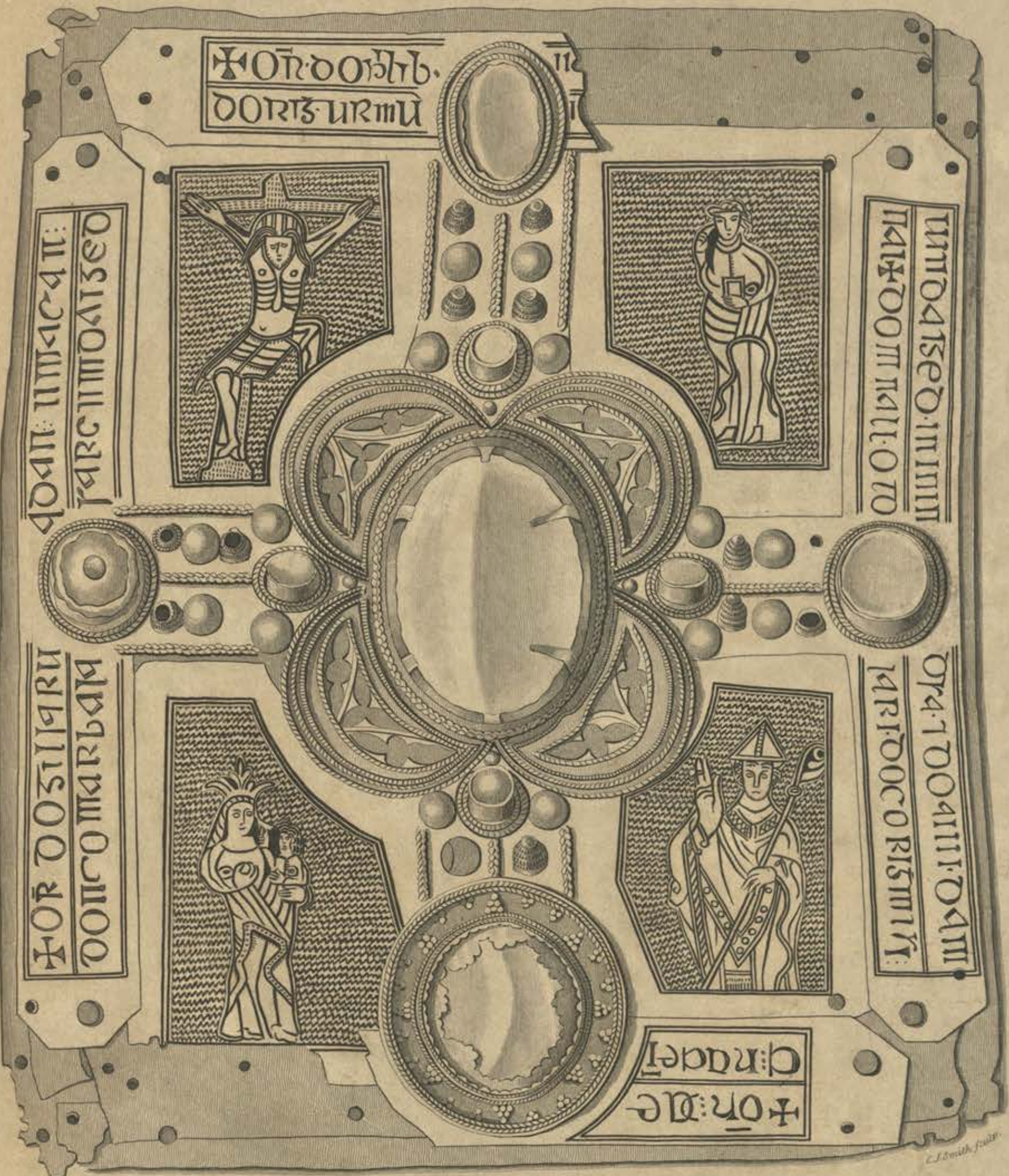
GOB ? #<-
! w2424 B C
((!!!!!!!! (71
! @ !!!!!!!!!!!!!!!! ! ! ! 4
r L +1= '4 55 !!!! @3'4 75
- ! - ! 0'(571 !!!!!! 1 (5(5'
.Z ! % '1#$ '8 4 '784 4 ;=5' 42('
! 2U(8;''(5 !!N!!! (8;3('
Z ! R2 ! ! (3 78 99 !!!!!! (5'18 99'
M ! , !! 4:=52;(''1 !! 4:(5R;(71
A @4552 ! 4=?41 !!!!!!!!!!!!!!4(?41

"< H8

- 6]## -
<2(= <2(%(&
0! 6- 'A'1 1 7 (2= =587 <y @4 :2:=(&
4:=8 0':4 '''1 !Q
, ! w (2!Q
, ! , @4; (@!! @4; = 4
Z ! 6: !!!! 6541

- 6? w@ 2@4V?=
Z ! M !! =;;'4 !! =;;
Z ! M !! ?' 4!(;
Z(! '<2 rr @4 ' (R'2=67'
Z ! , !! 4 4^ ,rr 2(;75(^
0 AA 8X 4

Ornamenta thecæ codicis Stowensis Evangelii S. Johannis, et Ritualis Hibernici antiquissimi, scripti ante adventum Anglorum in Hiberniam.



Inscriptiones Hibernicæ

+ ōrdoplib dorig. urmu

umdaiged. inmindsa 7 doaini. dannai + domnall.

otolari. docorig. misi :

+ ōr : De ___ a : huaēī

+ ōrdogillaruadan ∴ umacan : doncomarbalas ancumdaiged

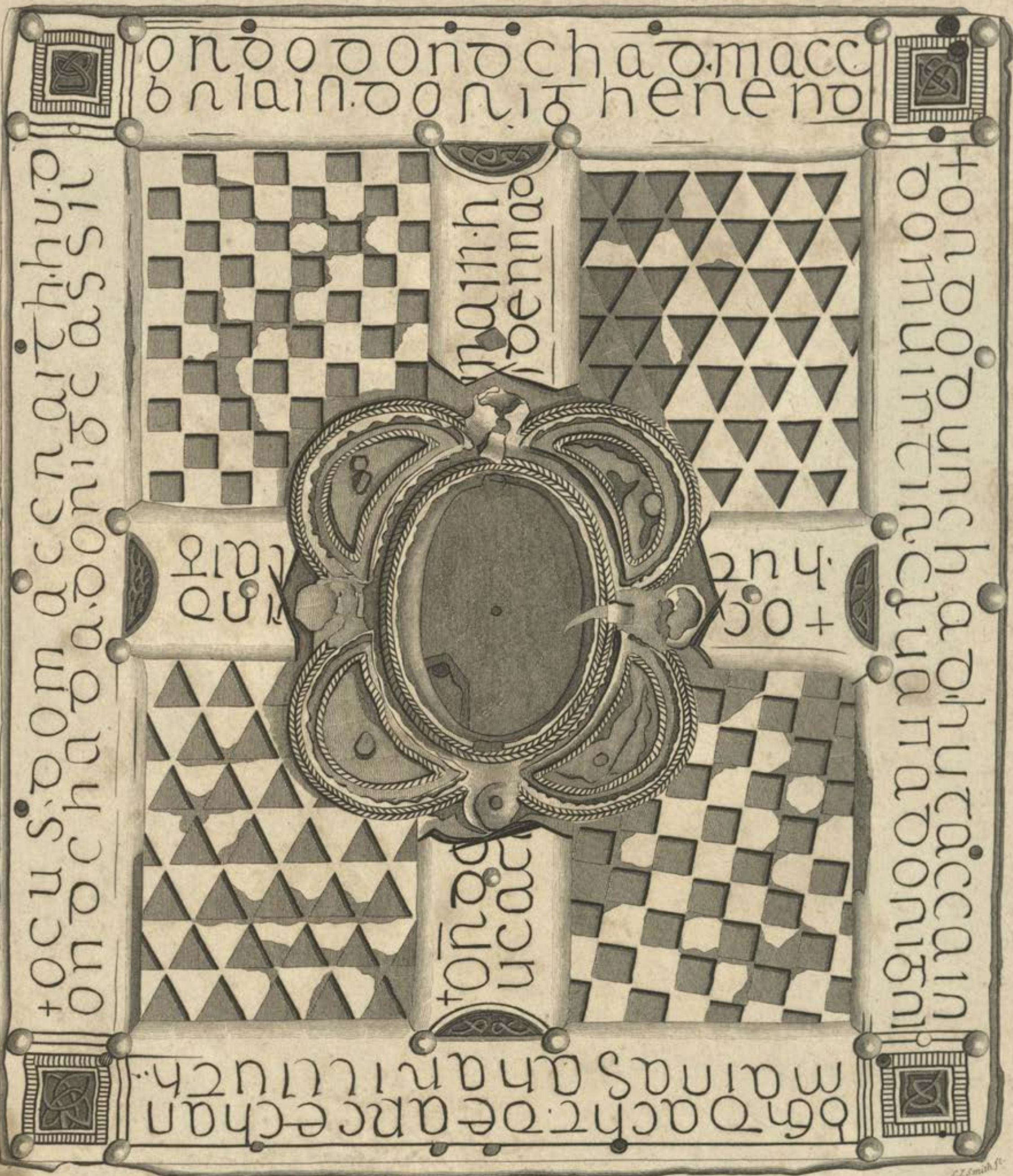
Versio Latina

Ora pro ___ rege Ormoniæ

Oblatio concors est gemma hæc et laudabili docto.

+ Donnaldus O'Tolar me ornavit

Ora pro Gilda Ruadano O'Macan, Abbate a quo hoc operimentum factum est.



C.J. Smith sc.

Inscriptiones Hibernicæ.

ōrdo dondchad · maccbriain · dorigherend

\+ *ōrdo dunchad · hutaccaindomuintir: cluana · dorigni*

bendacht · dearcechanmainasanarilliuth.

\+ *ocũs · domaccraith · hudondchada · dorigcassil*

\+ *ōrdo main · hucat ıdernad*

\+ *oc _____ andhud __ laig ___*

Versio Latina.

Ora pro Donchado filio Briani. Rege Hiberniæ.

Ora pro Dunchado O'Tagan familiæ Monachorum Cluanæ qui fecit h

Benedictio Dei unicuique qui huic operi contulit plus vel minus.

Et pro Maccratho O'Donnchad rege Casseliæ.

Ora pro anima O'Cat _____ qui perfecit

Et pro anima O'D _ laig.



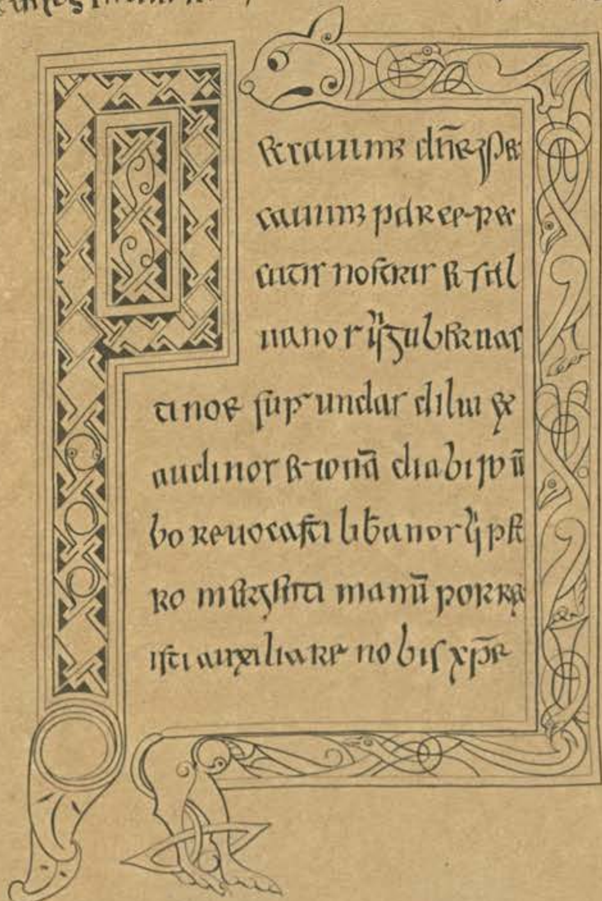
C. J. Smith sculp.^t





C.J. Smith sculp[t]

Lectio apostolorum ... incipit: ... ministerium ...



tuor et rex in sclo finis sic scm scdm
sic unus spiritu sancto ... cum patre ... per
patre et filio simul coadoratum dum et glorificum
dum

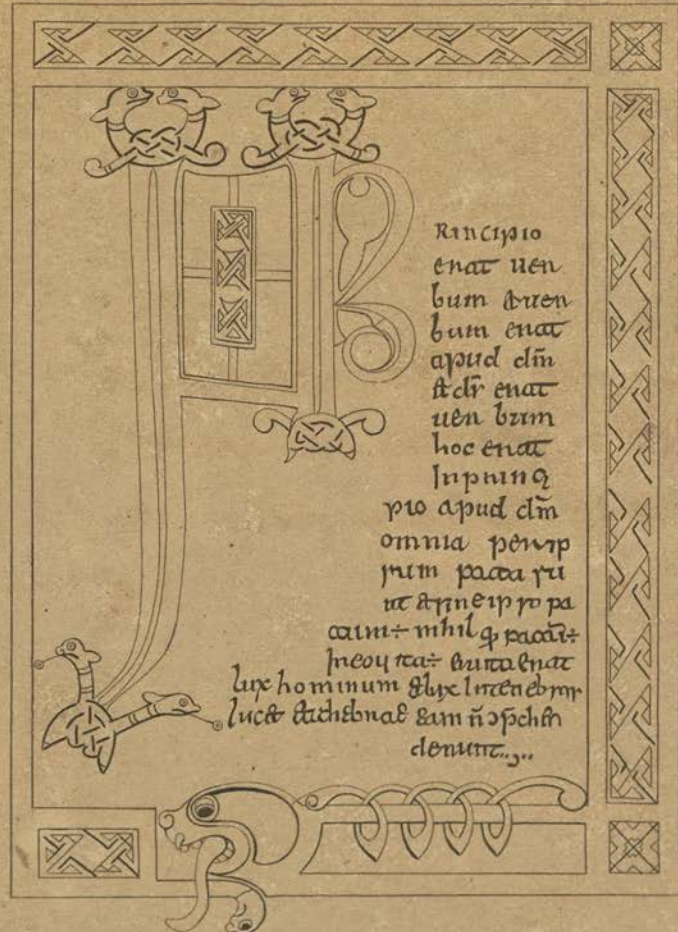
Ex Rituale prædicto arcerpta P. 19.

Rituale Hibernicum portatile in Bibliotheca Stowense.

C. J. Smith sculp.



S. Johannis imago.



Missale vetus Hibernicum, cum S. Johannis Evangelio prædicto.

Vide Cronicon Tigernachi p. 305. n. II.